

## **B. DISASSEMBLY & REASSEMBLY PROCEDURES**

## B - 1. REMOVAL OF EXTERIOR PARTS

[Chart for Removal of Exterior Parts]

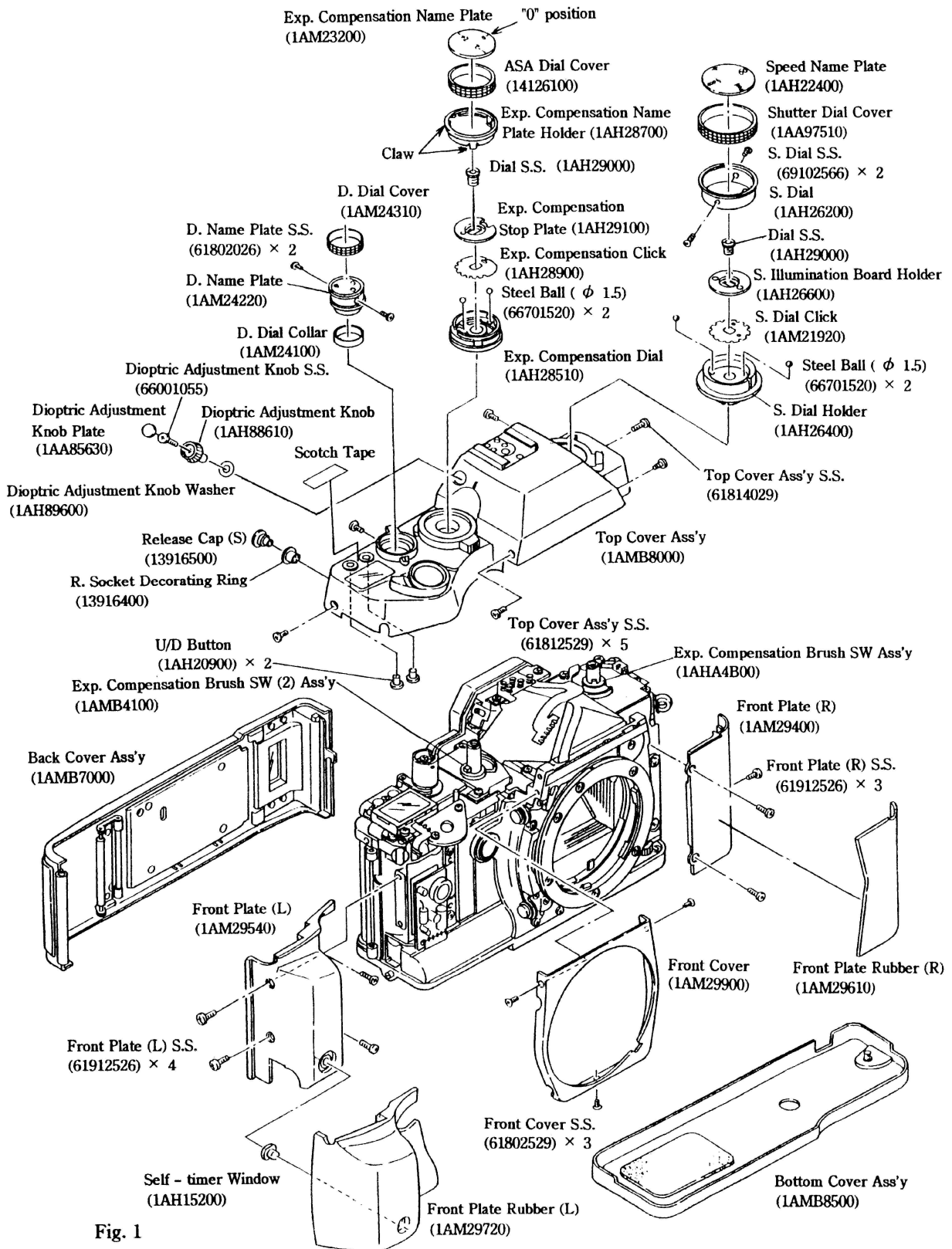


Fig. 1

### **B - 1 - 1. Removal of Back Cover Ass'y**

- 1) Open the Back Cover Ass'y (1AMB7000) by pressing and sliding down the Lock Release Button of the Lock Plate Unit.
- 2) Remove the Back Cover Ass'y while pushing down the Back Cover Release Pin.

### **B - 1 - 2. Removal of Bottom Cover Ass'y**

- 1) Loosen the Bottom Cover Screw using a coin or something like and take off the Bottom Cover Ass'y (1AMB8500).

### **B - 1 - 3. Removal of Front Cover**

- 1) Remove the Front Cover Setscrews (61802529) × 3 and take off the Front Cover (1AM29900).

### **B - 1 - 4. Removal of Top Cover Ass'y**

- 1) Peel off the Dioptic Adjustment Knob Plate (1AA85630) with tweezers or the like.

**Note: The Dioptic Adjustment Knob Plate is fixed with double - stick tape.**

- 2) Remove the Dioptic Adjustment Knob Setscrews (66001055) and take off the Dioptic Adjustment Knob (1AH88610) and Dioptic Adjustment Knob Washer (1AH89600).

- 3) Remove the Shutter Dial Cover (1AA97510).

**Note: The Shutter Dial Cover is fixed to the S. Dial with the bond (Cemedine 551).**

- 4) Remove the S. Dial Setscrews (69102566) × 2 and take off the S. Dial (1AH26200) W/Speed Name Plate (1AM22400).

**Note: The Speed Name Plate is fixed to the S. Dial with the bond (Cemedine 551).**

**In repair, do not remove the Speed Name Plate.**

- 5) Remove the Dial Setscrews (1AH29000) and take off the S. Illumination Board Holder (1AH26600), S. Dial Click (1AM21920) and S. Dial Holder (1AH26400).

**Note: Take care not lose the Steel Balls (66701520) × 2 fitted in the S. Dial Holder.**

- 6) Remove the ASA Dial Cover (14126100).

**Note: The ASA Dial Cover is fixed to the Exp. Compensation Dial with the bond (Cemedine 551).**

- 7) Raise gently the two claws of Exp. Compensation Name Plate Holder (1AH28700) positioned away from the "0" position of the Exp. Compensation Name Plate (1AM23200) and remove upward the EXP. Compensation Name Plate Holder W/Exp. Compensation Name Plate.

**Notes: a) The Exp. Compensation Name Plate is fixed to the Exp. Compensation Name Plate Holder with the bond (Cemedine 551).**

**In repair, do not remove the Exp. Compensation Name Plate.**

- b) The claws of the Exp. Compensation Name Plate Holder break easily, so take ample care in removal and installation.

- 8) Remove the Dial Setscrew (1AH29000) and take off the Exp. Compensation Stop Plate (1AH29100), Exp. Compensation Click (1AH28900) and Exp. Compensation Dial (1AH28510).

**Note: Take care not to lose the Steel Balls (66701520) × 2 fitted in the Exp. Compensation Dial.**

9) Remove the D. Dial Cover (1AM24310).

**Note:** The D. Dial Cover is fixed to the D. Name Plate with the bond (Cemedine 551).

10) Remove the D. Name Plate Setscrews (61802026)  $\times$  2 and take off the D. Name Plate (1AM24220) W/D. Dial Collar (1AM24100).

**Note:** The D. Dial Collar is press - fitted in the D. Name Plate. In repair, do not remove the D. Dial Collar.

11) Remove the Release Cap (S) (13916500) and R. Socket Decorating Ring (13916400).

12) Stick the Scotch Tape to the U/D Button (1AH20900)  $\times$  2. (See Fig. 1 )

13) Remove the Top Cover Ass'y Setscrews (61812529)  $\times$  5, (61814029) and take off the Top Cover Ass'y (1AMB8000).

**Notes:** a) After the removal of the Top Cover Ass'y, you can take off the Exp. Compensation Brush SW Ass'y (1AHA4B00) and Exp. Compensation Brush SW (2) Ass'y (1AMB4100). (See Fig. 1)

b) The contact of the Exp. Compensation Brush bends easily, so take ample care in handling.

### [Notes on Handling of Top Cover Ass'y]

The Top Cover Ass'y incorporates the Mode Contact, A.B.C. Contact, Light Metering Contact and Main Switch. Take care not to bend or deform the contacts.

### B - 1 - 5. Removal of Front Plates

1) Peel off the Front Plate Rubber (R) (1AM29600).

2) Peel off the Front Plate Rubber (L) (1AM29710) and remove the Self - timer Window (1AH15200).

**Note:** The Front Plate Rubber (R) and Front Plate Rubber (L) are fixed to the Front Plates with double - stick tape.

3) Remove the Front Plate (R) Setscrews (61912526)  $\times$  3 and take off the Front Plate (R) (1AM29400).

4) Remove the Front Plate (L) Setscrews (61912526)  $\times$  4 and take off the Front Plate (L) (1AM29540).

5) Unsolder the Black and Pink lead wires (from Cell Case) on the DC/DC Converter Ass'y.

6) Unsolder the 5 soldered joints between the DC/DC Converter Ass'y and the Main FPC.

7) Remove the DC/DC Converter Ass'y Set - screws (66001081) and take off the DC/DC Converter Ass'y (1AME1000).

8) Peel off the DC/DC Converter Sheet (1AM12000) and unsolder the Orange and Green lead wires (from Self - timer LED Board).

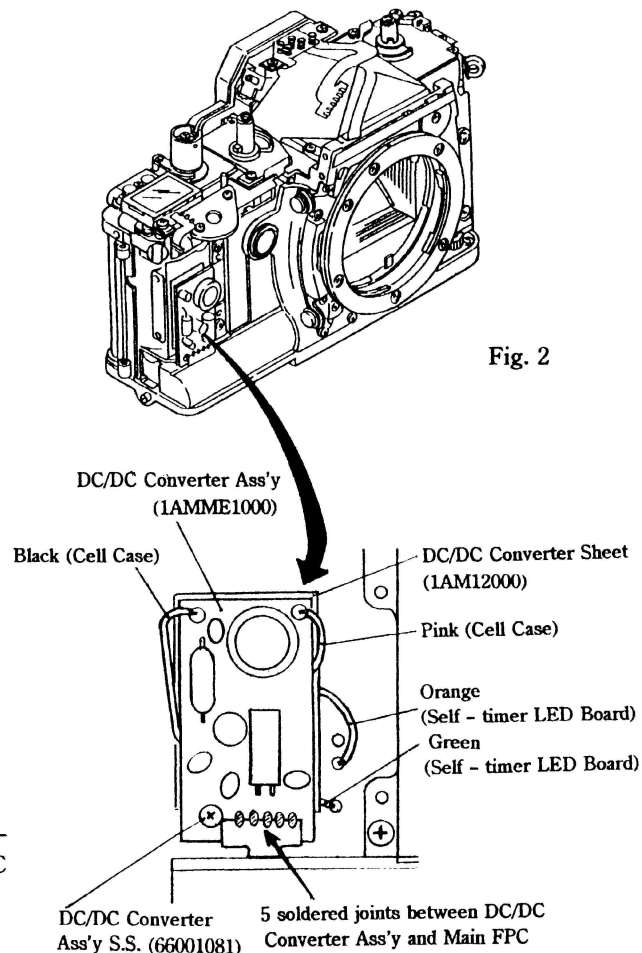


Fig. 2



**[Assembly Procedure for Shutter Dial]**

- 1) Make certain that the Exp. Compensation Brush SW Ass'y (1AHA4B00) (6 contacts) is positioned as shown in Fig. 3.
- 2) Install the S. Dial Holder (1AH26400) in the position as shown in Fig. 4.
- 3) Apply a small amount of the Grease (HK - 9) to the Steel Ball (66701520)  $\times$  2. Then put the Steel Balls in the holes in the S. Dial Holder.
- 4) Apply the Grease (HK - 9) to the grooves in the S. Dial Click (1AM21920) on its dull coner side and install it in the S. Dial Holder. In doing so, install the S. Dial Click in the position as shown in Fig. 5.
- 5) Install the S. Illumination Board Holder (1AH26600) in the position as shown in Fig. 5 and tighten the Dial Setscrew (1AH29000).
- 6) Install the S. Dial W/Speed Name Plate by fitting the projections of the S. Dial (1AH26200) into the grooves in the S. Dial Holder. In doing so, make certain that the shutter speed is set in the "4000" position. Tighten the S. Dial Setscrews (69102566)  $\times$  2.  
Turn the S. Dial and make certain that it turns smoothly without a catch or rough feel but with clicks to the feel.
- 7) Apply a small amount of the bond (Cemedine 551) to the periphery of the S. Dial. Put the Shutter Dial Cover (1AA97510) on the periphery of the S. Dial.

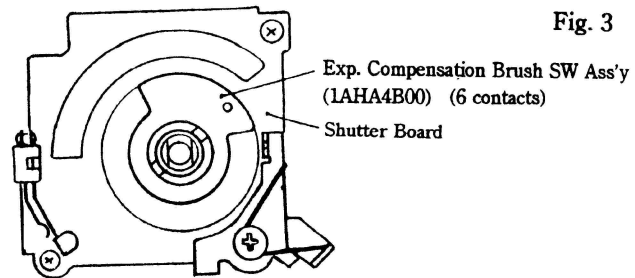


Fig. 3

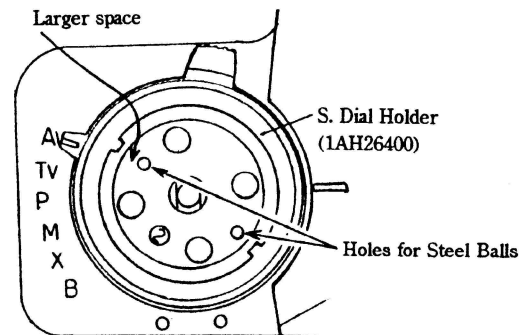


Fig. 4

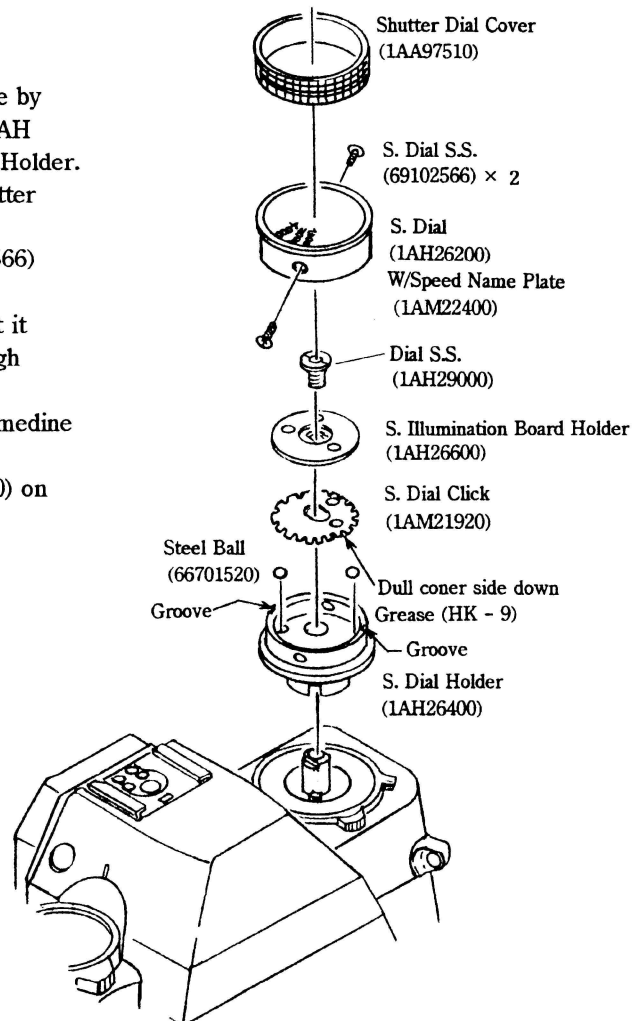
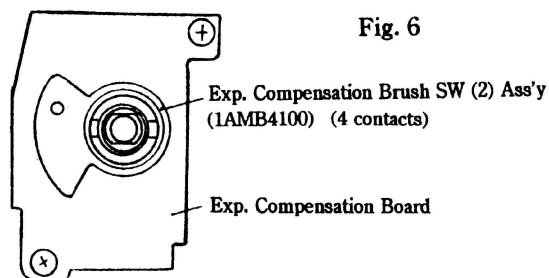


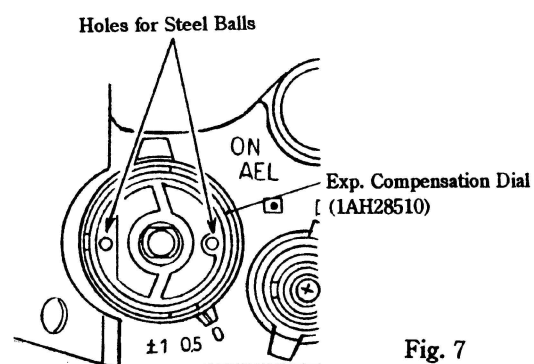
Fig. 5

**[Assembly Procedure for Exp. Compensation Dial]**

- 1) Make certain that the Exp. Compensation Brush SW (2) Ass'y (1AMB4100) (4 contacts) is positioned as shown in Fig. 6.



- 2) Install the Exp. Compensation Dial (1AH28510) in the position as shown in Fig. 7.
- 3) Apply a small amount of the Grease (HK - 9) to the the Steel Balls (66701520)  $\times$  2. Then put the Steel Balls in the two holes in the Exp. Compensation Dial.



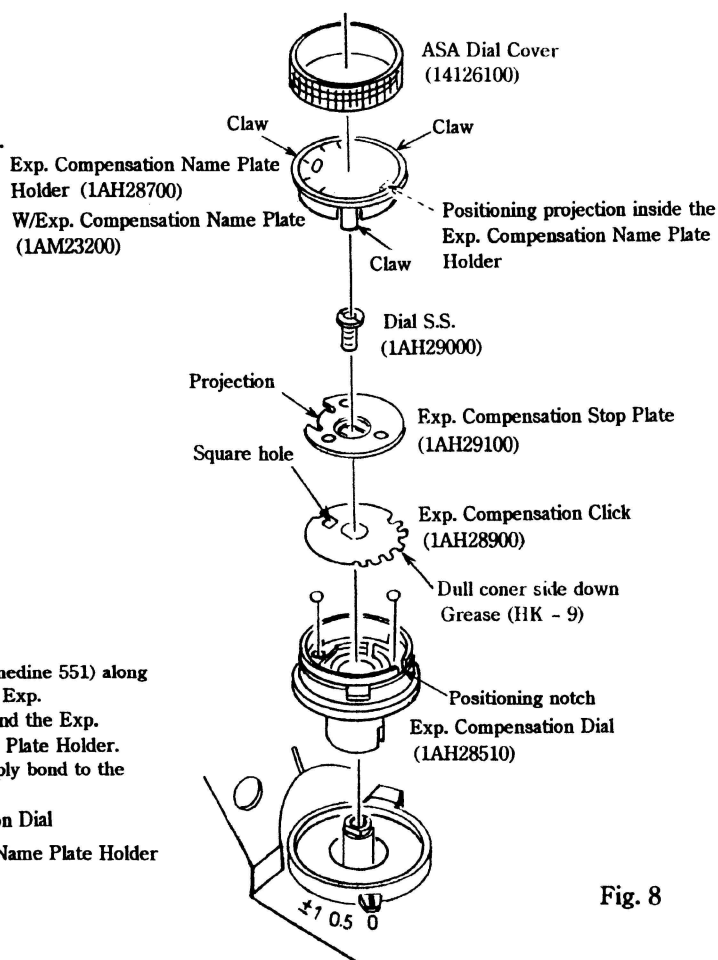
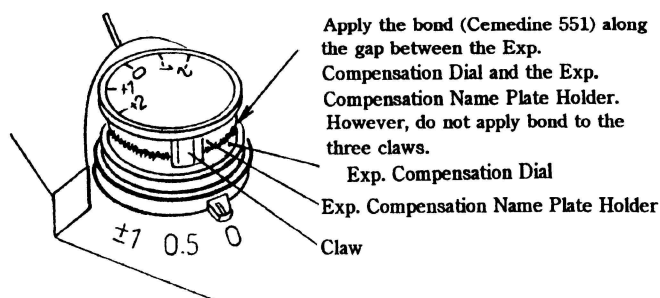
- 4) Apply the Grease (HK - 9) to the grooves in the Exp. Compensation Click (1AH28900) on its dull coner side and install it in the Exp. Compensation Dial.
- 5) Install the Exp. Compensation Stop Plate (1AH29100) so that its projection comes in the square hole in the Exp. Compensation Click. Then tighten the Dial Setscrew (1AH29000).

- 6) Fit the positioning notch in the Exp. Compensation Dial onto the positioning projection of the Exp. Compensation Name Plate Holder (1AH28700) and install the Exp. Compensation Name Plate Holder W/ Exp. Compensation Name Plate.

In doing so, lock the three claws of the Exp. Compensation Name Plate Holder to the Exp. Compensation Dial.

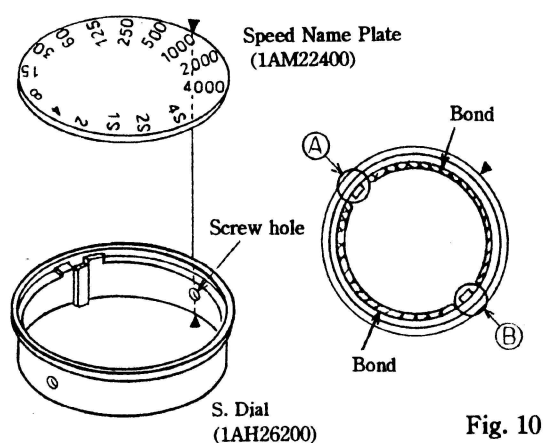
- 7) Apply the bond (Cemedine 551) to the periphery along the gap between the Exp. Compensation Dial and the Exp. Compensation Name Plate Holder. (See Fig. 9) However, do not apply bond to the three claws of the Exp. Compensation Name Plate Holder.

- 8) Put the ASA Dial Cover (14126100) on the periphery of the Exp. Compensation Dial.



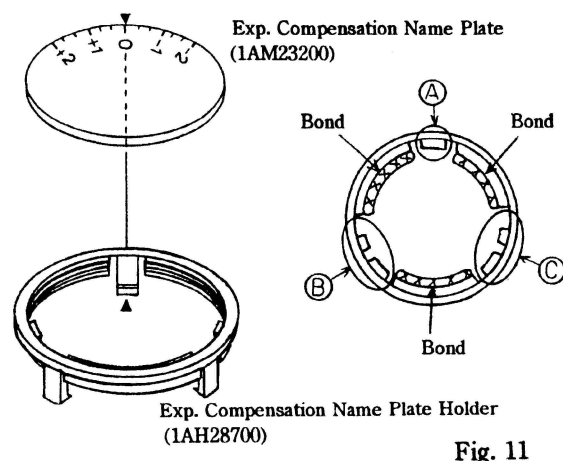
### [How to Attach Speed Name Plate]

- 1) Set the Speed Name Plate (1AM22400) in the S. Dial (1AH26200) by placing the "1000" position of the Name Plate at the hole in the S. Dial.
  - 2) Apply the bond (Cemedine 551) to the back side of Speed Name Plate.
- Note: Do not apply bond to the A or B.**



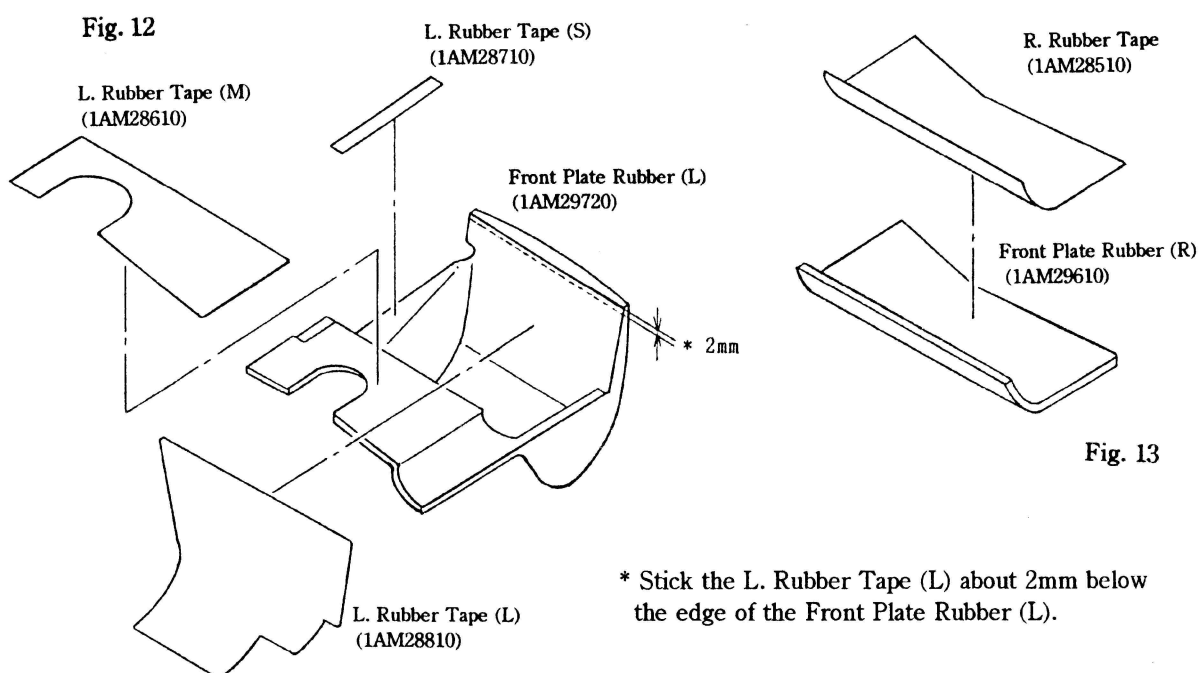
### [How to Attach Exp. Compensation Name Plate]

- 1) Set the Exp. Compensation Name Plate (1AM23200) in the Exp. Compensation Name Plate Holder (1AH28700) by positioning the "0" of the Name Plate at the claw (triangle mark) of the Holder.
  - 2) Apply the bond (Cemedine 551) to the back side of Exp. Compensation Name Plate.
- Note: Do not apply the bond to A, B or C.**



### [Sticking of Double - Stick Tape to Front Plate Rubbers]

- Notes:**
- a) The adhesive force of the double - stick tape on the Front Plate Rubber (L) and Front Plate Rubber (R) weakens, once the Front Plate Rubbers are peeled off. Therefore, stick new double - stick tape before attaching the Front Plate Rubbers again.
  - b) Stick the double - stick tapes so that they do not protrude from the Front Plate Rubbers.

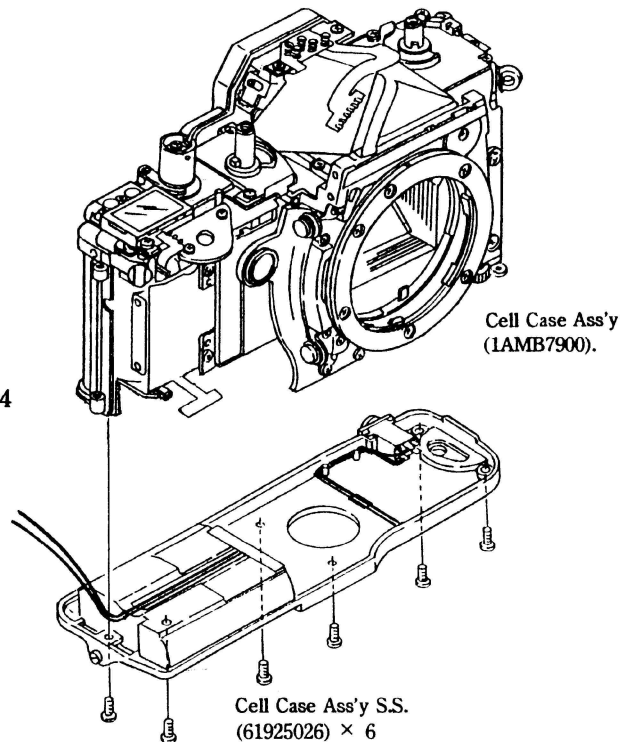


## B - 2. REMOVAL OF CELL CASE ASS'Y

### B - 2 - 1. Removal of Cell Case Ass'y

- 1) Remove the Cell Case Ass'y Setscrews (61925026)  $\times$  6 and take off the Cell Case Ass'y (1AMB7900).

Fig. 14



#### [Notes on Dressing of Battery Contact Lead Wires]

- a) Place the lead wires (Pink and Black) of the Cell Case between the projection on the left side of the Body and the Cell Case. Take care not to dress the lead wires over the projection on the left side of the Body or over the Cell Case. (See Fig. 15)
- b) Lead the Pink lead wire of the Cell Case behind the DC/DC Converter and solder it to the DC/DC Converter. (See Fig. 16)

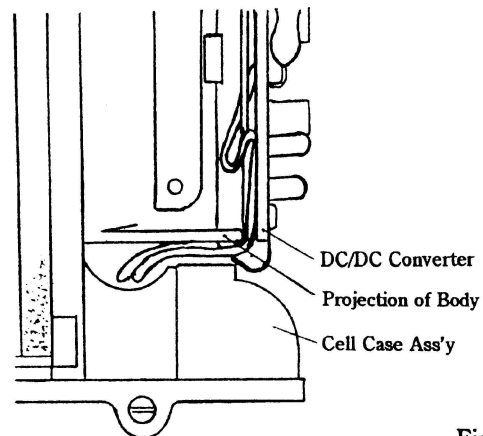


Fig. 15

(Left side view of Body)

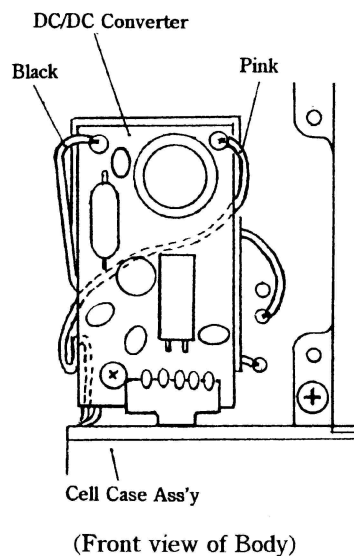


Fig. 16

## B-3. REMOVAL OF MAIN FPC ASS'Y

[Chart for Unsoldering on Main FPC Ass'y]

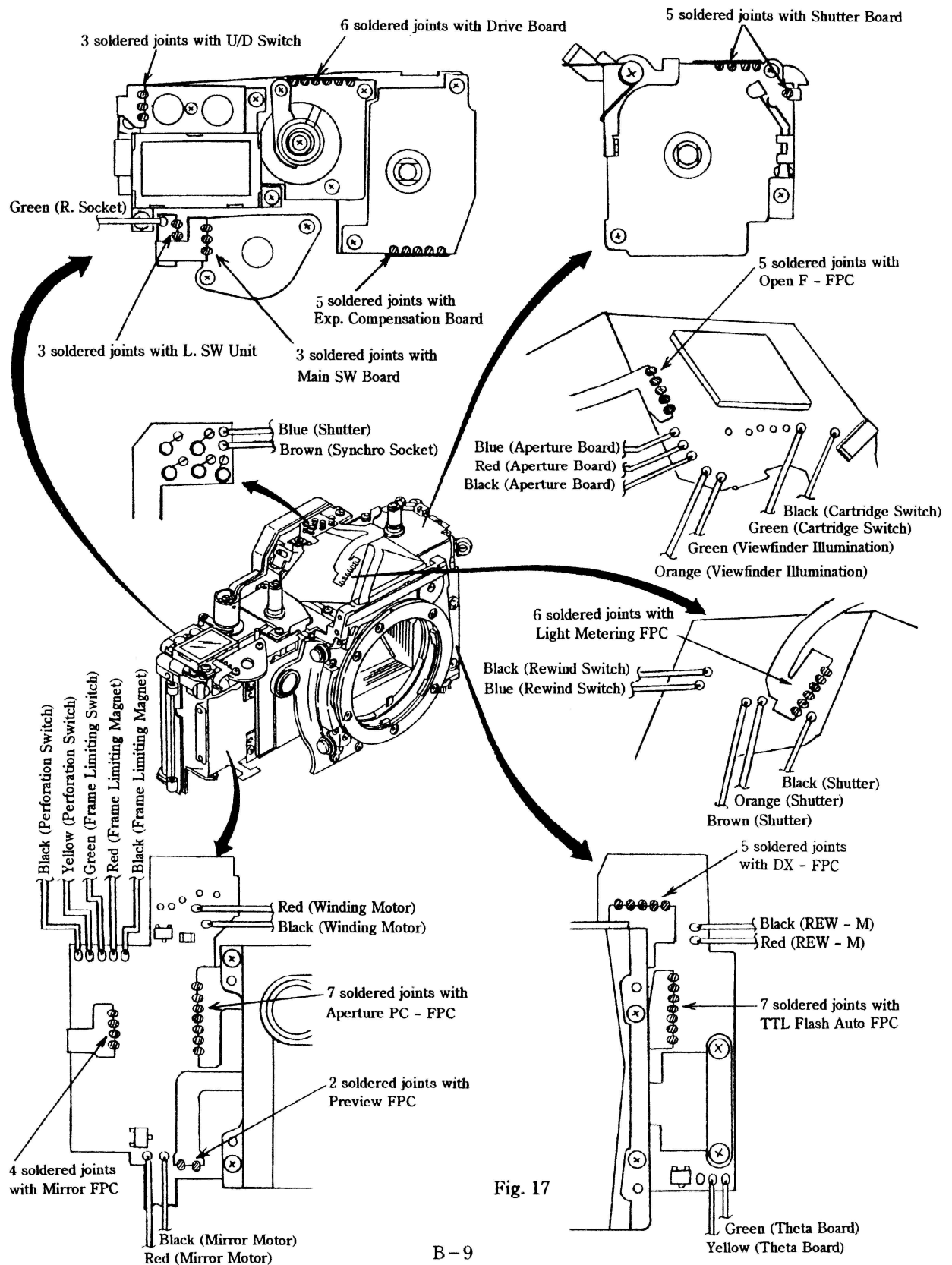


Fig. 17

**B - 3 - 1. Removal of Main FPC Ass'y****(Top of Body)**

- 1) Unsolder the Blue lead wire (from Shutter (X)) and Brown lead wire (from Synchro Socket).
- 2) Unsolder the Black and Blue lead wires (from Rewind Switch).
- 3) Unsolder the Brown, Orange and Black lead wires (from Shutter).
- 4) Unsolder the 6 soldered joints between the Light Metering FPC and the Main FPC.
- 5) Unsolder the Black and Green lead wires (from Cartridge Switch).
- 6) Unsolder the Black, Red and Blue lead wires (from Aperture Board).
- 7) Unsolder the Green and Orange lead wires (from Viewfinder Illumination).
- 8) Unsolder the 5 soldered joints between the Open F - FPC and the Main FPC.

**(Top Left of Body)**

- 9) Unsolder the Green lead wire (from R. Socket).
- 10) Unsolder the 3 soldered joints between the Main SW Board and Main FPC.
- 11) Unsolder the 3 soldered joints between the L. SW Unit and the Main FPC.
- 12) Unsolder the 3 soldered joints between the U/D Switch and the Main FPC.
- 13) Peel off the acetate cloth tape attached to the soldered joints between the Drive Board and Main FPC and unsolder the 6 soldered joints between the Drive Board and the Main FPC.
- 14) Unsolder the 5 soldered joints between the Exp. Compensation Board and the Main FPC.

**(Top Right of Body)**

- 15) Unsolder the 5 soldered joints between the Shutter Board and the Main FPC.

**(Front Right of Body)**

- 16) Unsolder the Red and Black lead wires (from Mirror Motor).
- 17) Unsolder the Black and Yellow lead wires (from Perforation Switch), Green lead wire (from Frame Limiting Switch), Red and Black lead wires (from Frame Limiting Magnet).
- 18) Unsolder the 2 soldered joints between the Preview FPC and the Main FPC.
- 19) Unsolder the 7 soldered joints between the Aperture PC - FPC and the Main FPC.
- 20) Unsolder the 4 soldered joints between the Mirror FPC and the Main FPC.

**(Front Left of Body)**

- 21) Unsolder the Black and Red lead wires (from REW - M).
- 22) Unsolder the Green and Yellow lead wires (from Theta Board).
- 23) Unsolder the 7 soldered joints between the TTL Flash Auto FPC and the Main FPC.
- 24) Unsolder the 5 soldered joints between the DX - FP and the Main FPC.
- 25) Remove the FPC Connect Plate Setscrews (66001025)  $\times$  2 and take off the FPC Connect Plate (1AM12220) and FPC Connect Rubber (1AM12510).
- 26) Remove the Connect Post (1AH10300)  $\times$  2.

**(Top Right of Body)**

- 27) Remove the LCD Base Plate Setscrews (63912526)  $\times$  2 and take off the LCD Base Plate W/External LCD Panel.
- 28) Remove the Release Base Plate Setscrews (63912526)  $\times$  2, (63914026) and take off the Release Base Plate Ass'y (1AMB4000).
- 29) Remove the Main FPC Ass'y (61901822).

**(Top Left of Body)**

- 30) Release the hook of the Mode Lock Spring (1AM27810) and remove the Mode Lock Lever Ass'y Setscrews (66001049). Then take off the Mode Lock Spring and the Mode Lock Lever Ass'y (1AMB4600).
- 31) Remove the Mode Lock Shaft (1AH23810) and Shutter Board Setscrews (63912526), (63914026) and take off the Shutter Board (1AM53310) and S. Dial Base Plate Ass'y (1AMB4500).
- 32) Remove the Indicator Connect Plate Setscrews (66001010)  $\times$  4 and take off the Indicator Connect Plate (1AM13000) and FPC Connect Rubber (1AM12510)  $\times$  2.
- 33) Remove the Main FPC Ass'y Setscrews (63912526) and take off the Main FPC Ass'y (1AME0800).

**Note:** The Main FPC is attached to the Accessory Shoe Base with the Shoe Base Tape (1AH81700), so take due care in removing the Main FPC Ass'y.

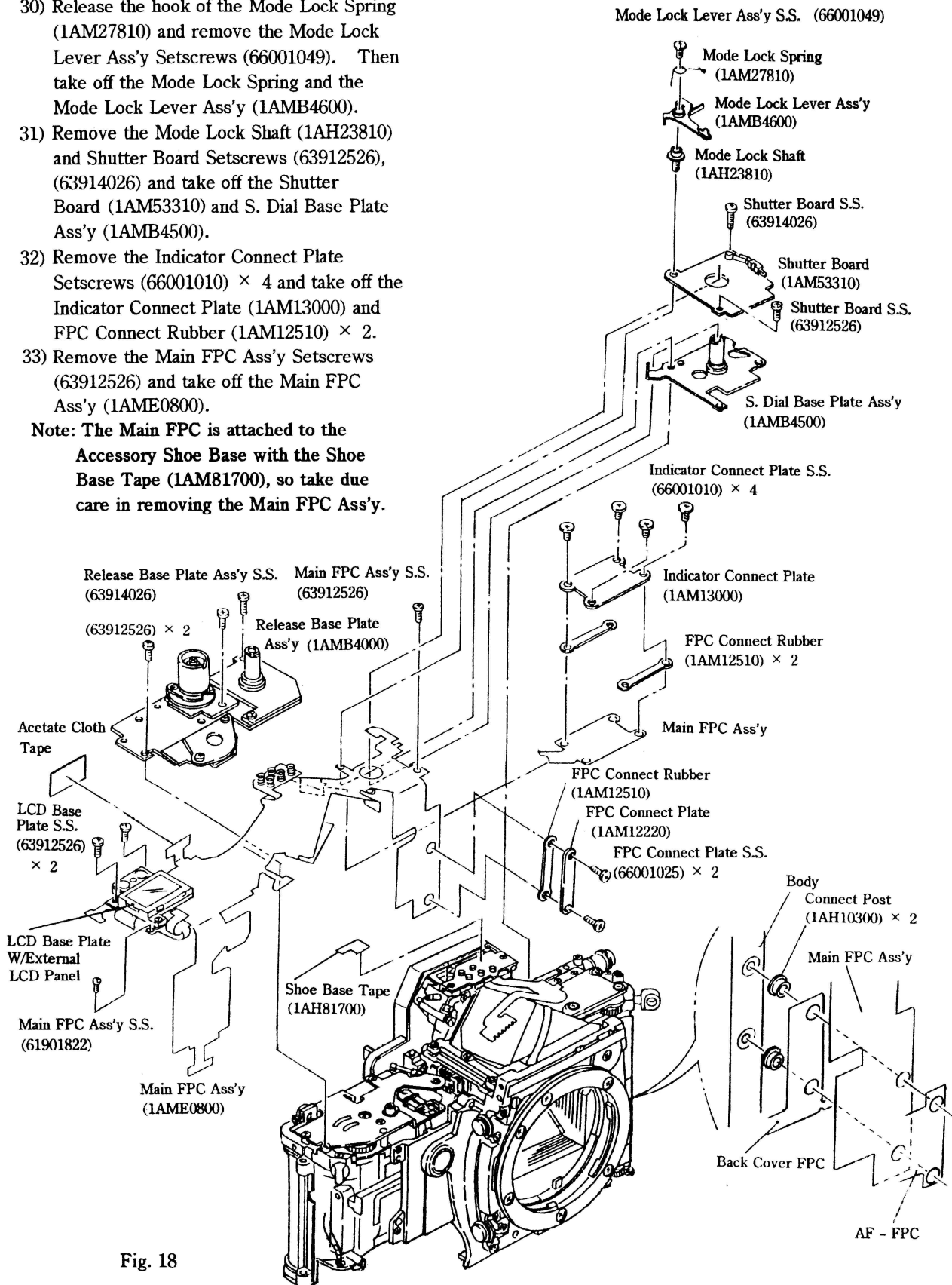
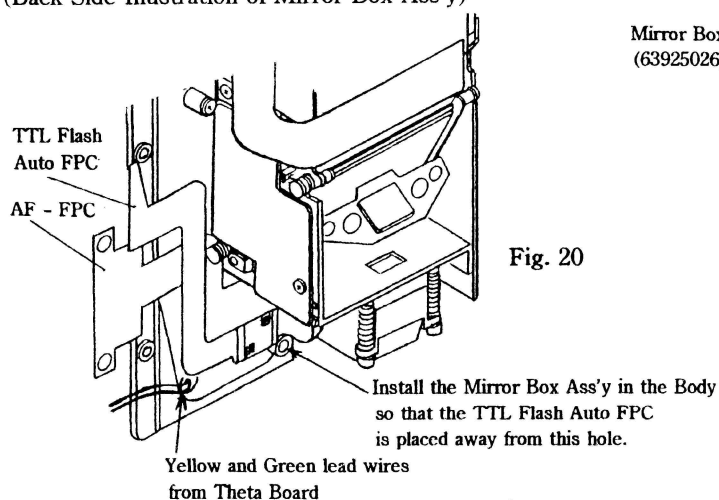
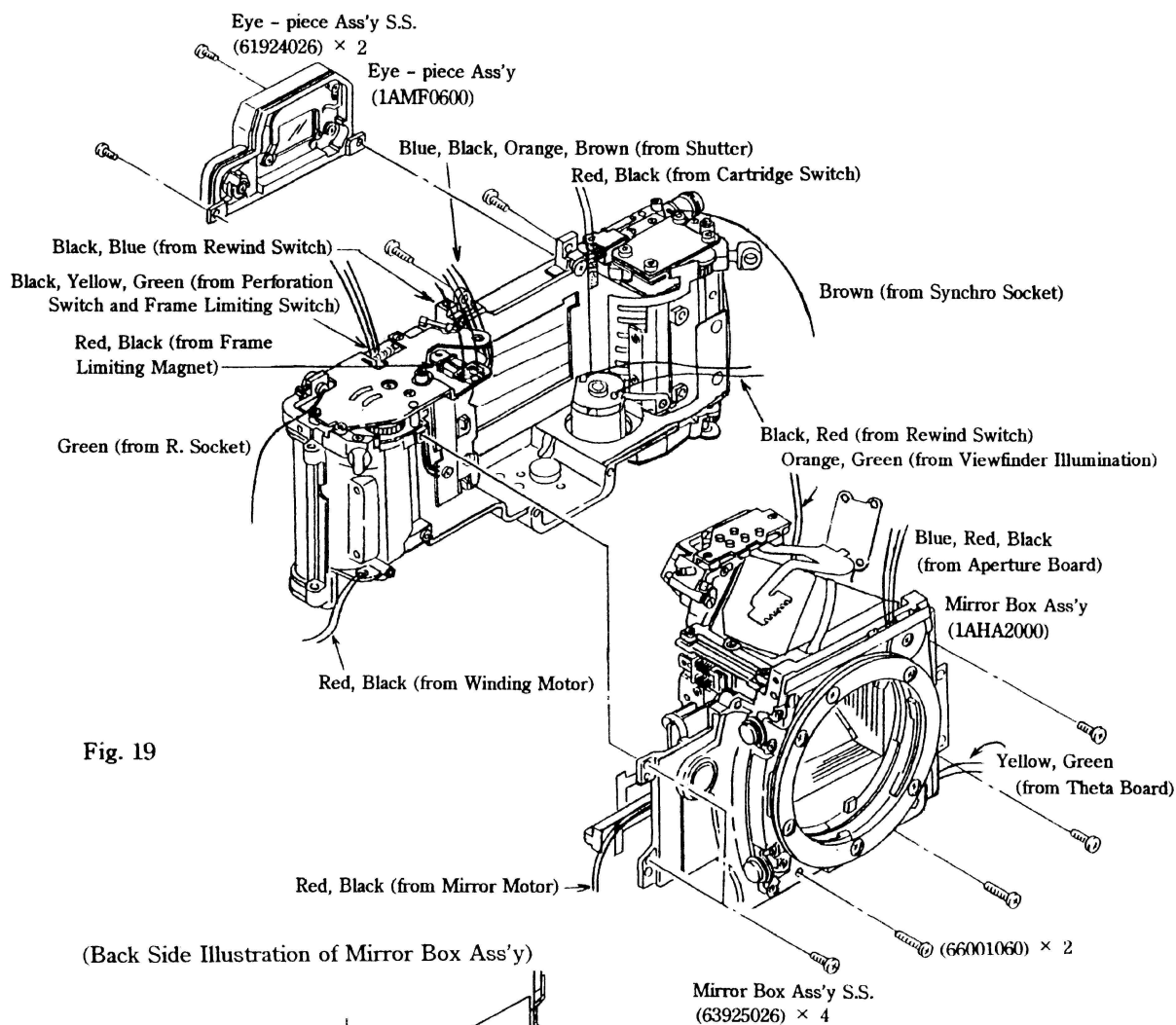


Fig. 18

## B - 4. REMOVAL OF MIRROR BOX ASS'Y

### B - 4 - 1. Removal of Mirror Box Ass'y

- 1) Remove the Eye - piece Ass'y Setscrews (61924026)  $\times$  2 and take off the Eye - piece Ass'y (1AMF0600).
- 2) Remove the Mirror Box Ass'y Setscrews (6600160)  $\times$  2, (63925026)  $\times$  4 and take off the Mirror Box Ass'y (1AHA2000).





## [Notes on Installation of Mirror Box Ass'y]

\* When installing the Mirror Box Ass'y in the Body, observe the following instructions:

- a) The lead wires connected to the Body and those connected to the Mirror Box Ass'y must be placed out of the Body as shown in Fig. 19. And when installing the Mirror Box Ass'y, take care not to catch any lead wires or FPC between the Body and the Mirror Box Ass'y.

Make certain that the lead wires are placed out as shown in Fig. 22.

- b) Make certain that the hook of the S. Charge Lever and the hook of the S. Charge Hold Lever are released, and then install the Mirror Box Ass'y in the Body.

### (Procedure for Releasing Hook of S. Charge Lever and Hook of S. Charge Hold Lever)

- ① Turn the Mirror Gear (3) (1AM71300) in the direction of the arrow ①, and the FC Charge Lever will move upward in the hole in the Mirror Base Plate (Upper) by the effect of the cam of the Cam Gear.
- ② Turn the Mirror Gear (3) further, and the S. Charge Lever is pulled downward by the force of the Charge Lever Spring (1AM72710). After that, move the S. Charge Hold Lever in the direction of the arrow ②, and the hook of the S. Charge Lever and the hook of the S. Charge Hold Lever will be released and the Mirror will move up.
- ③ Turn the Mirror Gear (3) further in the direction of the arrow ③ until the Aperture Lever comes to the up position (see Fig. 40). Then install the Mirror Box Ass'y in the Body.

(Side View of Mirror Box Ass'y)

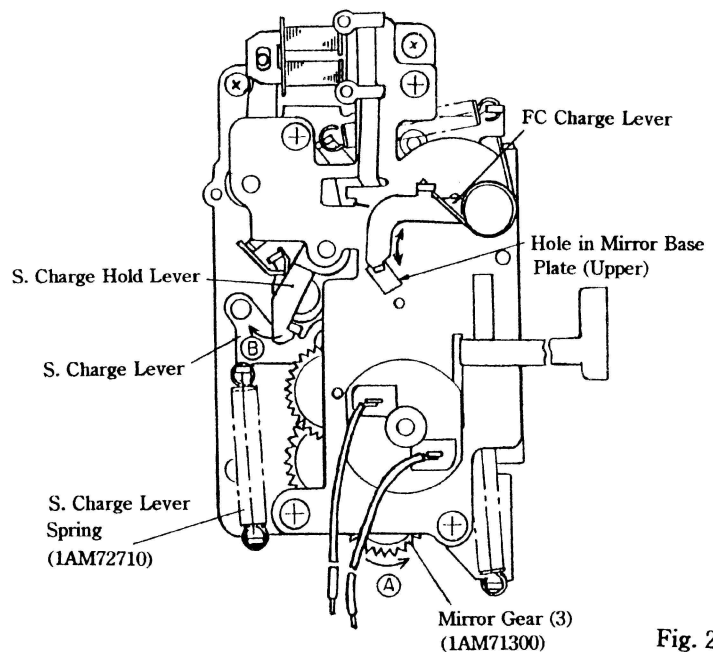


Fig. 21

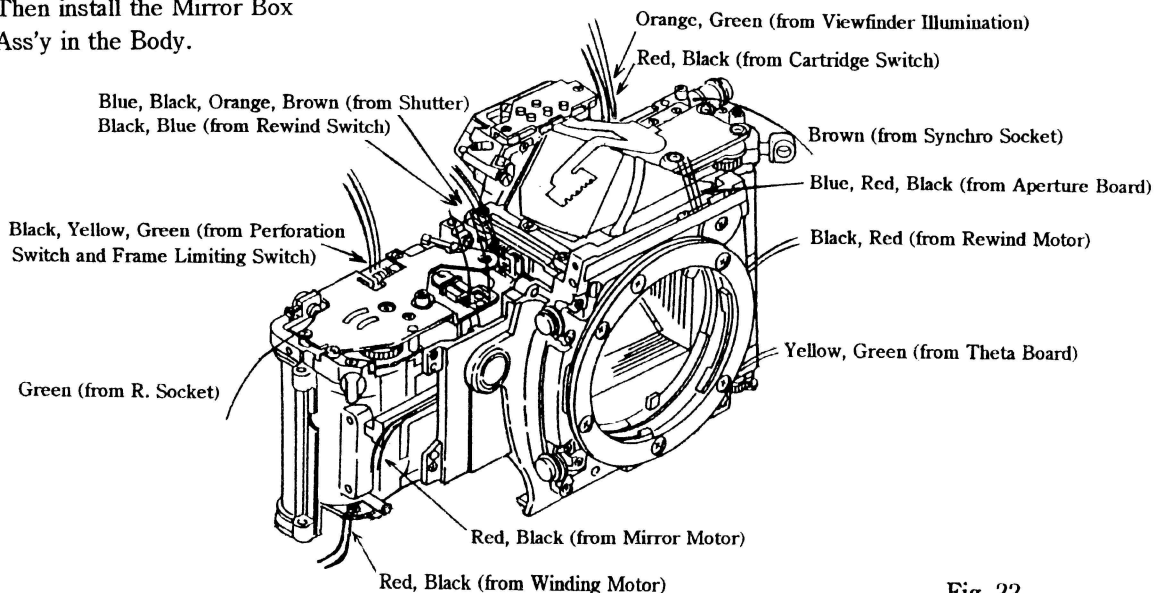


Fig. 22

## B - 5. DISASSEMBLY OF WINDING MECHANISM

### B - 5 - 1. Disassembly of Winding Mechanism

- 1) Peel off the Lock Claw Moquette (2) (1741600).
- 2) Remove the Hinge Cover Ass'y Setscrews (66001187), (69113576) and take off the Hinge Cover Ass'y (1AMB0600).

Notes: a) Remember that the Hinge Cover Ass'y Setscrew (66001187) is an inverse screw.

b) In repair, it is not necessary to remove the Lock Claw Moquette (2) or Hinge Cover Ass'y.

To install the Spool, however, move the Film Roller in the direction of the arrow and install the Spool with the Film Roller held there.

- 3) Remove the Film Fixer Ass'y Setscrews (63913526)  $\times$  2 and take off the Film Fixer Ass'y (174B1100).
- 4) Remove the Winding Unit Ass'y Setscrews (61913522), (61813026)  $\times$  2 and take off the Winding Unit Ass'y (1AMB1700).
- 5) Remove the Spool (1AM31600).
- 6) Remove the Spool Holder Setscrews (63911826)  $\times$  3 and take off the Spool Holder (17438200).
- 7) Remove the Sprocket (17437100).

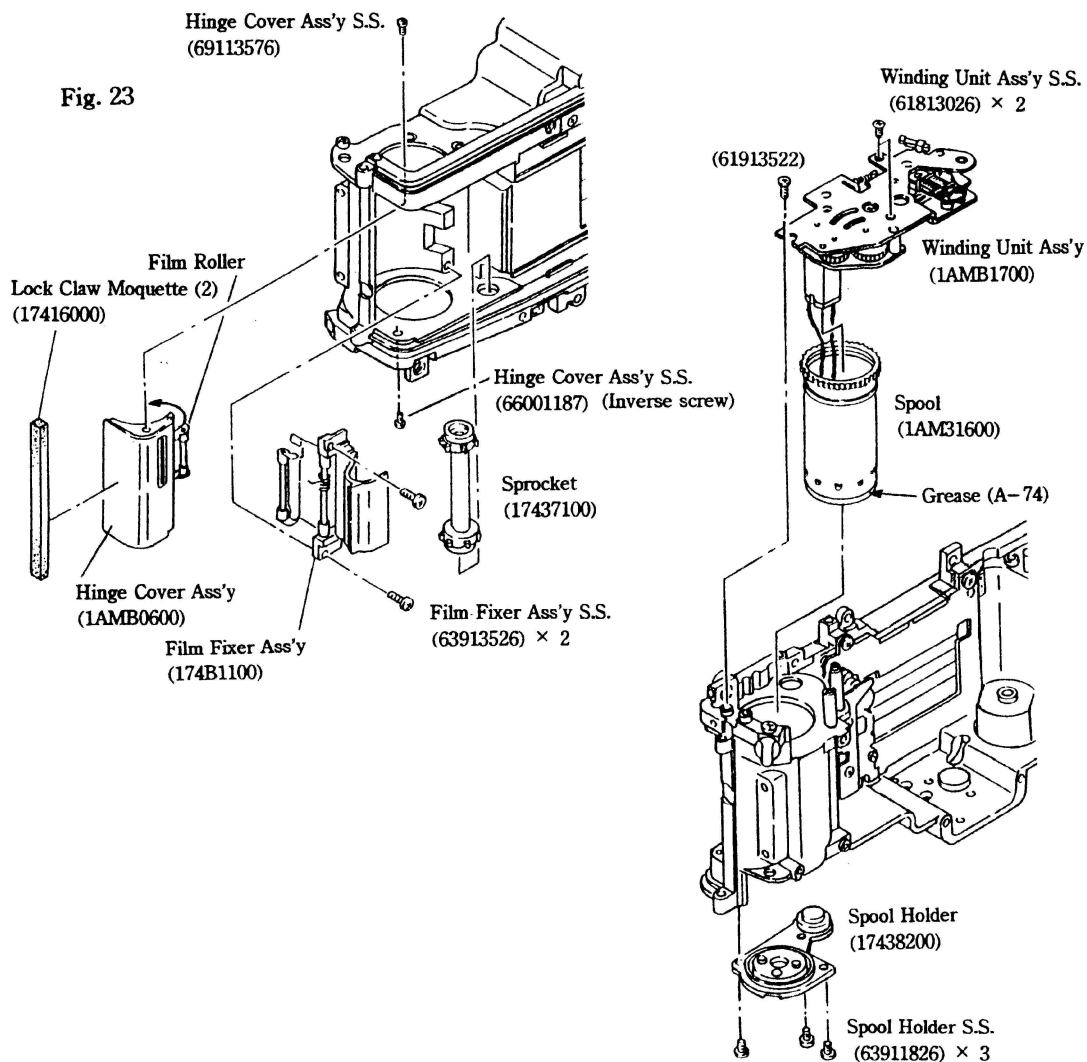


Fig. 24

## B - 6. REMOVAL OF SHUTTER UNIT

### B - 6 - 1. Removal of Shutter Unit

- 1) Peel off the Light - Proof Curtain (1) (1AH88200).
- 2) Remove the Shutter Unit Setscrews (61924029), (66001065), (66001001) and take off the Shutter Unit (1AM30100).

**Notes:** a) The blades of the Shutter Unit are made with precision. Never touch the blades with your finger, nor push them with any tool.

b) The Light - Proof Curtain (1) is attached to the Body with the Shutter Light - Proof Curtain Tape (1AM30200).

c) When installing the Shutter Unit, push the Shutter Unit in the direction of the arrow as shown in Fig. 25 and tighten the Shutter Unit Setscrews.

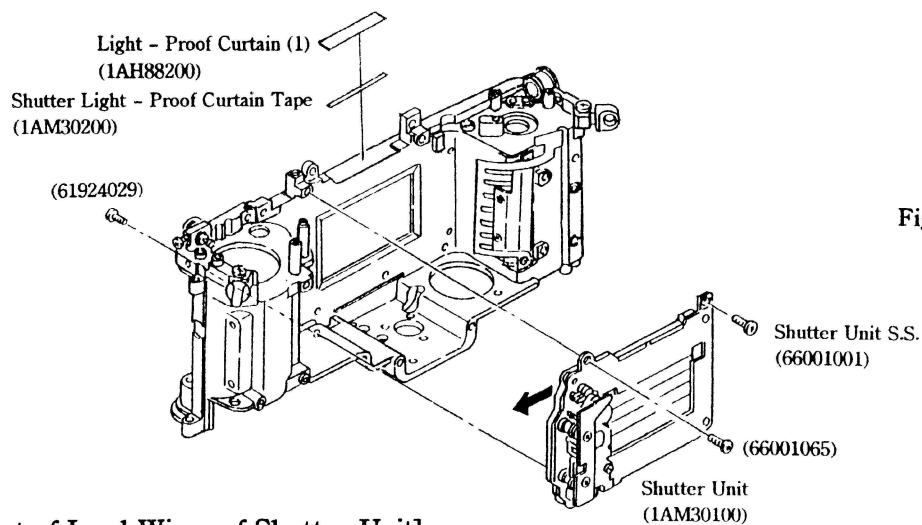


Fig.25

#### [Layout of Lead Wires of Shutter Unit]

- ① Blue lead wire (X)
- ② Brown lead wire (M1)
- ③ Black lead wire (GND)
- ④ Orange lead wire (M2)

(Front View of Shutter Unit)

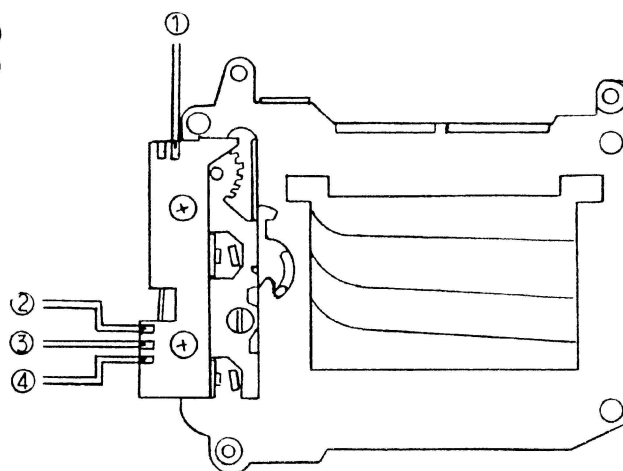


Fig. 26

## B - 7. REMOVAL OF REWIND MECHANISM

### B - 7 - 1. Removal of Rewind Base Plate (Upper) Ass'y

- 1) Remove the FPC Connect Base Plate Ass'y Setscrews (61913526)  $\times$  2 and take off the FPC Connect Base Plate Ass'y (1AMB1300).
- 2) Remove the Rewind Base Plate (Upper) Ass'y Setscrews (61913526)  $\times$  3 and take off the Rewind Base Plate (Upper) Ass'y (1AMB0800).
- 3) Remove the Drive Shaft (1AM41820).
- 4) Remove the Cartridge SW Pin (1AM11700).

### B - 7 - 2. Removal of Rewind Base Plate (Lower) Ass'y

- 1) Remove the Bottom Cover Screw Holder Ass'y Setscrews (61923026)  $\times$  2 and take off the Bottom Cover Screw Holder Ass'y (1AMB0700).
- 2) Remove the Rewind Base Plate (Lower) Ass'y Setscrews (63914026)  $\times$  3 and take off the Rewind Base Plate (Lower) Ass'y (1AMB1400).

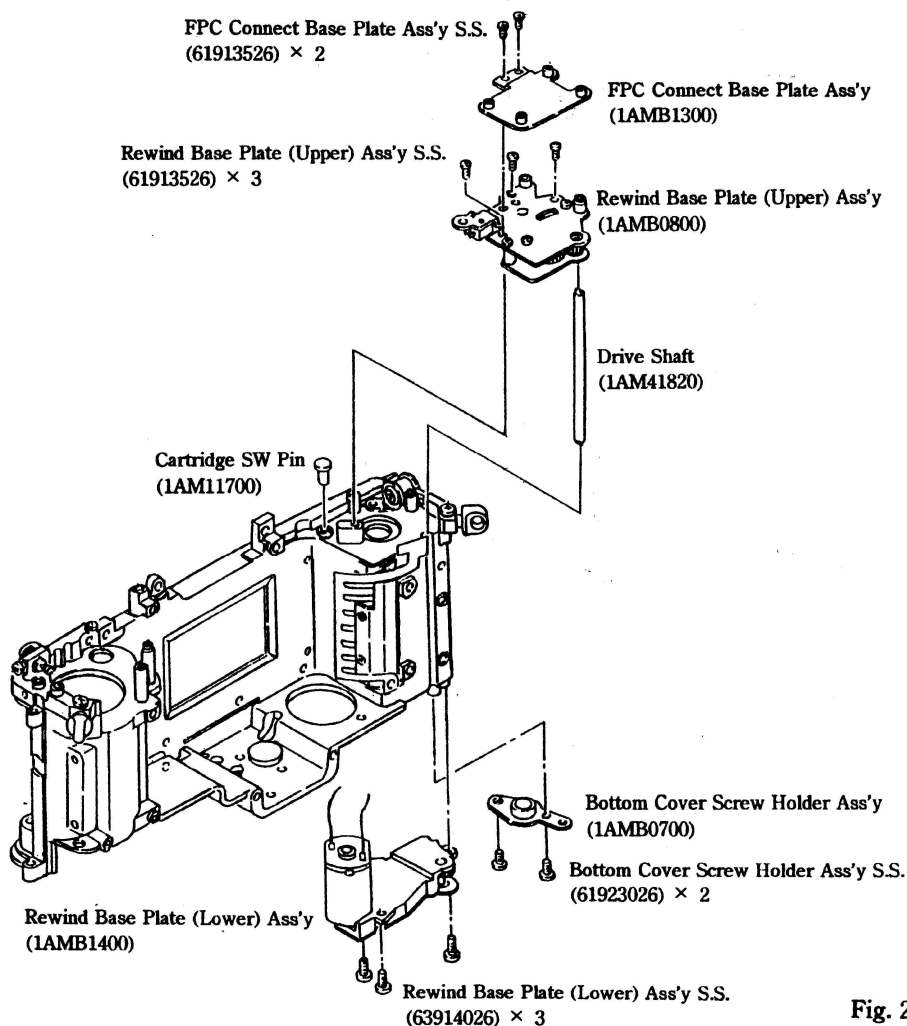


Fig. 27

## B - 6. REMOVAL OF SHUTTER UNIT

### B - 6 - 1. Removal of Shutter Unit

- 1) Peel off the Light - Proof Curtain (1) (1AH88200).
- 2) Remove the Shutter Unit Setscrews (61924029), (66001065), (66001001) and take off the Shutter Unit (1AM30100).

**Notes:** a) The blades of the Shutter Unit are made with precision. Never touch the blades with your finger, nor push them with any tool.

b) The Light - Proof Curtain (1) is attached to the Body with the Shutter Light - Proof Curtain Tape (1AM30200).

c) When installing the Shutter Unit, push the Shutter Unit in the direction of the arrow as shown in Fig. 25 and tighten the Shutter Unit Setscrews.

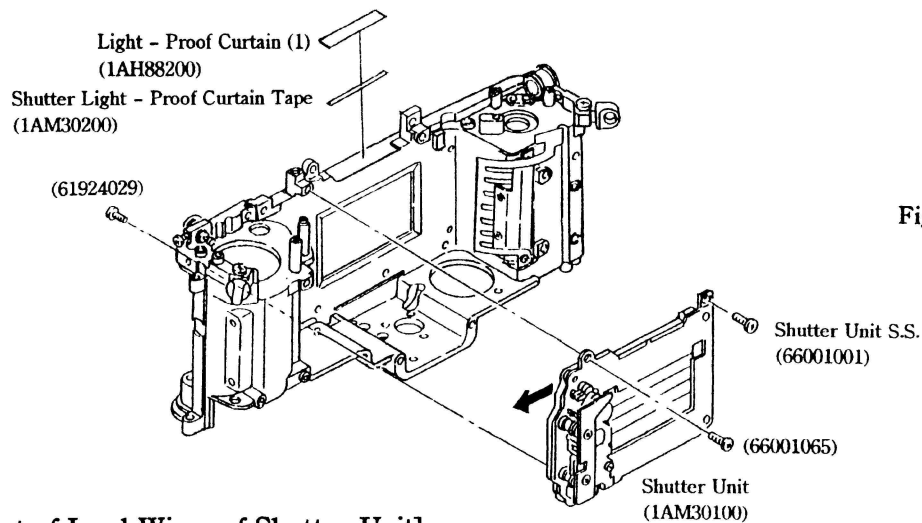


Fig.25

#### [Layout of Lead Wires of Shutter Unit]

- ① Blue lead wire (X)
- ② Brown lead wire (M1)
- ③ Black lead wire (GND)
- ④ Orange lead wire (M2)

(Front View of Shutter Unit)

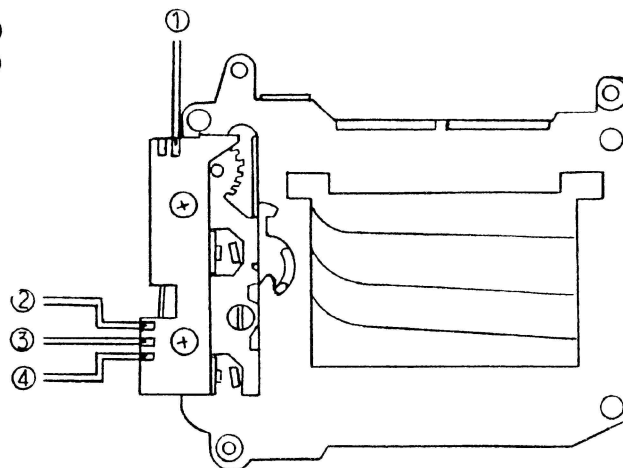


Fig. 26

## B - 7. REMOVAL OF REWIND MECHANISM

### B - 7 - 1. Removal of Rewind Base Plate (Upper) Ass'y

- 1) Remove the FPC Connect Base Plate Ass'y Setscrews (61913526)  $\times$  2 and take off the FPC Connect Base Plate Ass'y (1AMB1300).
- 2) Remove the Rewind Base Plate (Upper) Ass'y Setscrews (61913526)  $\times$  3 and take off the Rewind Base Plate (Upper) Ass'y (1AMB0800).
- 3) Remove the Drive Shaft (1AM41820).
- 4) Remove the Cartridge SW Pin (1AM11700).

### B - 7 - 2. Removal of Rewind Base Plate (Lower) Ass'y

- 1) Remove the Bottom Cover Screw Holder Ass'y Setscrews (61923026)  $\times$  2 and take off the Bottom Cover Screw Holder Ass'y (1AMB0700).
- 2) Remove the Rewind Base Plate (Lower) Ass'y Setscrews (63914026)  $\times$  3 and take off the Rewind Base Plate (Lower) Ass'y (1AMB1400).

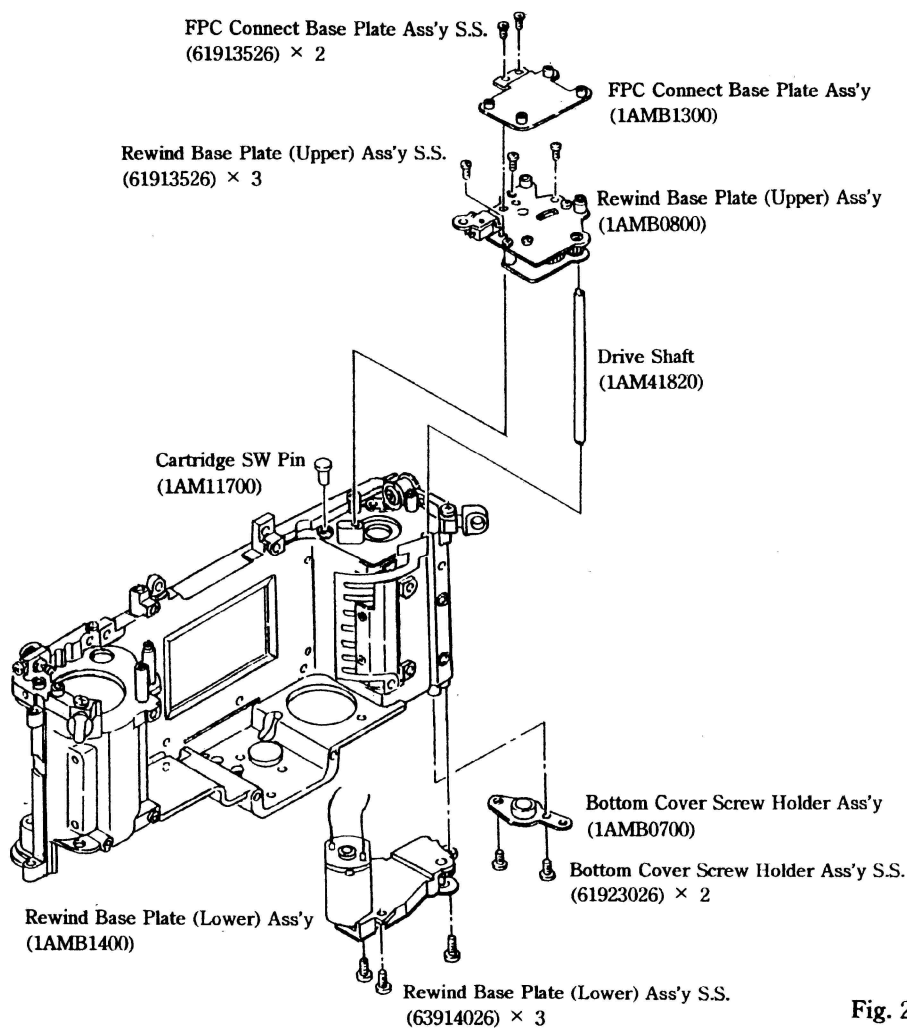


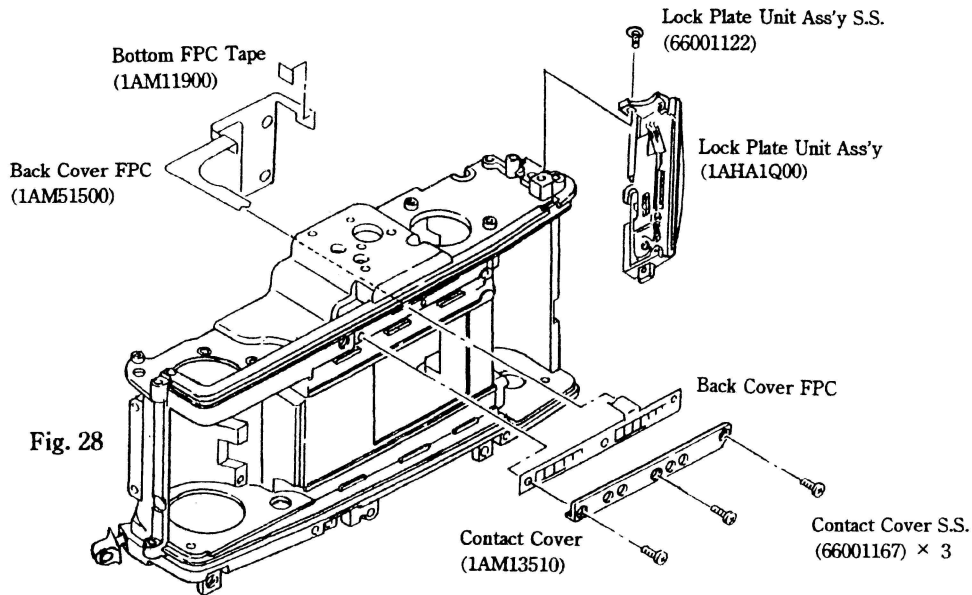
Fig. 27

## B - 8. REMOVAL OF OTHER PARTS

### B - 8 - 1. Removal of Back Cover FPC

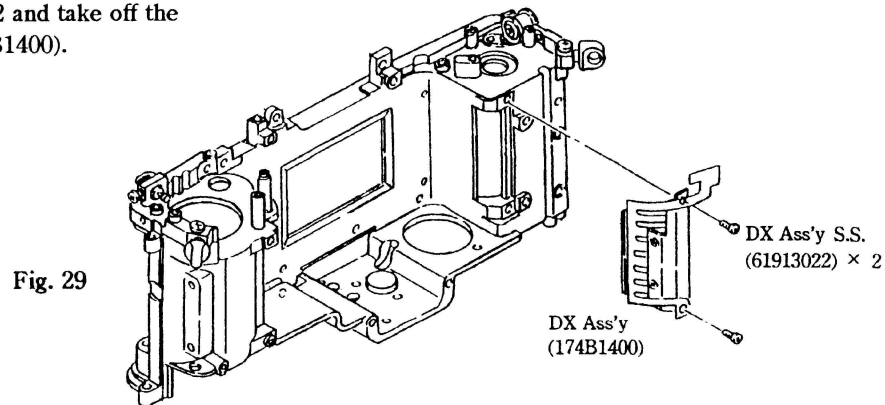
- 1) Remove the Lock Plate Unit Ass'y Setscrews (66001122) and take off the Lock Plate Unit Ass'y (1AHA1Q00).
- 2) Remove the Contact Cover Setscrews (66001167)  $\times$  3 and take off the Contact Cover (1AM13510).
- 3) Remove the Back Cover FPC (1AM51500).

**Note:** Remove the Back Cover FPC carefully, since it is attached to the Body with the Bottom FPC Tape (1AM11900).



### B - 8 - 2. Removal of DX Ass'y

- 1) Remove the DX Ass'y Setscrews (61913022)  $\times$  2 and take off the DX Ass'y (174B1400).



## B - 9. DISASSEMBLY & REASSEMBLY PROCEDURES FOR ASS'Y PARTS

### B - 9 - 1. Disassembly of Mirror Box Ass'y

**Note:** When disassembling the Mirror Box Ass'y, observe the following instructions:

- a) Do not remove the AF Module.  
Its removal can cause a defective Digital Focus Indicator, thus resulting in incorrect focusing.  
If the AF Module is found defective, replace the Mirror Box Ass'y (1AMG1200).
- b) Do not remove the Mirror Frame Ass'y, Mirror Hinge Plate, Sub Mirror Adjusting Plate, Main Adjusting Plate or Mirror Stopper.  
Their removal can cause a defective Digital Focus Indicator, thus resulting in incorrect focusing.

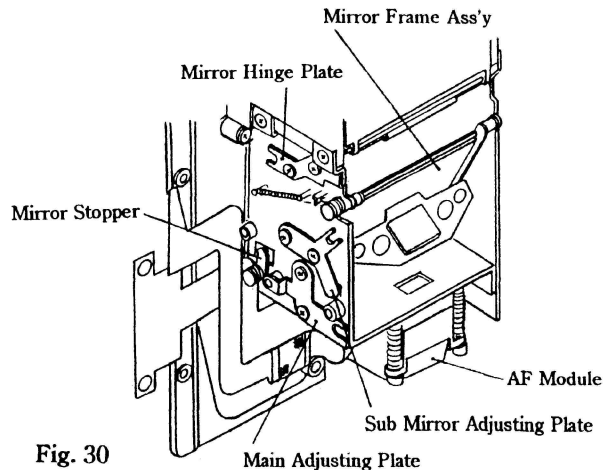


Fig. 30

- 1) Remove the Dioptic Adjuster Ass'y Setscrews (63914026)  $\times$  2 and take off the Dioptic Adjuster Ass'y (1AMF0500).
- 2) Remove the Finder LCD Ass'y Setscrews (63902226)  $\times$  2 and take off the Finder LCD Ass'y (1AMF0400).

**Note:** Remove the Finder LCD Ass'y carefully, since the FPC of the Finder LCD Ass'y is attached to the Mirror Box with the Finder Indicator FPC Tape (1AM81800).

- 3) Remove the Penta Prism Holder Setscrews (63915526)  $\times$  4 and take off the Penta Prism Holder W/Penta Prism.
- 4) Remove the four Focus Adjust Washers.

**Note:** In reassembly, put back the same Focus Adjust Washers. When the finder focusing is not right, make the finder focus adjustment by replacing these Focus Adjust Washers.

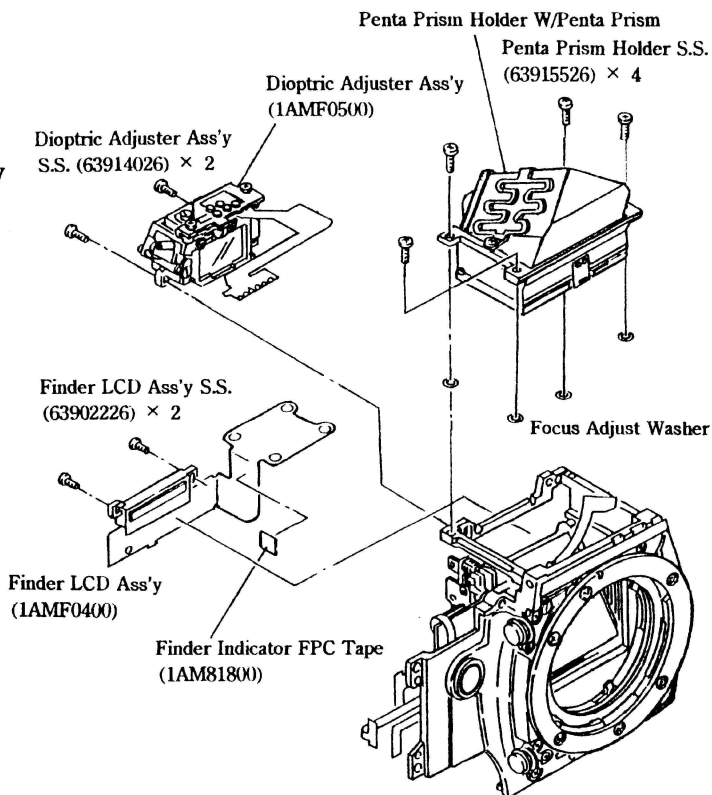
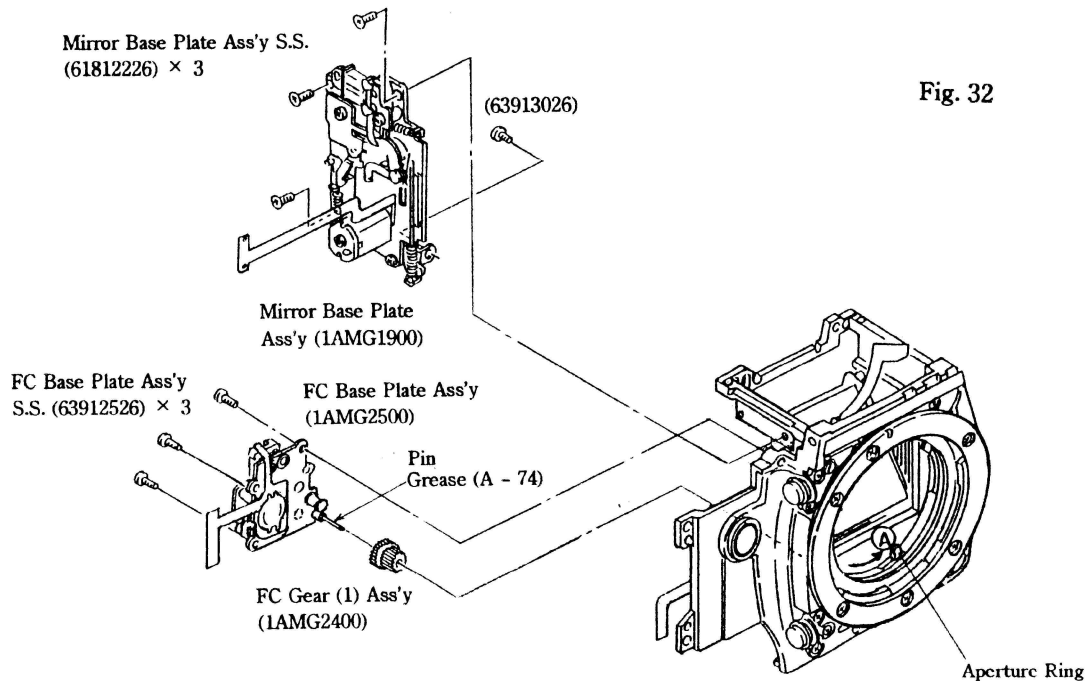


Fig. 31



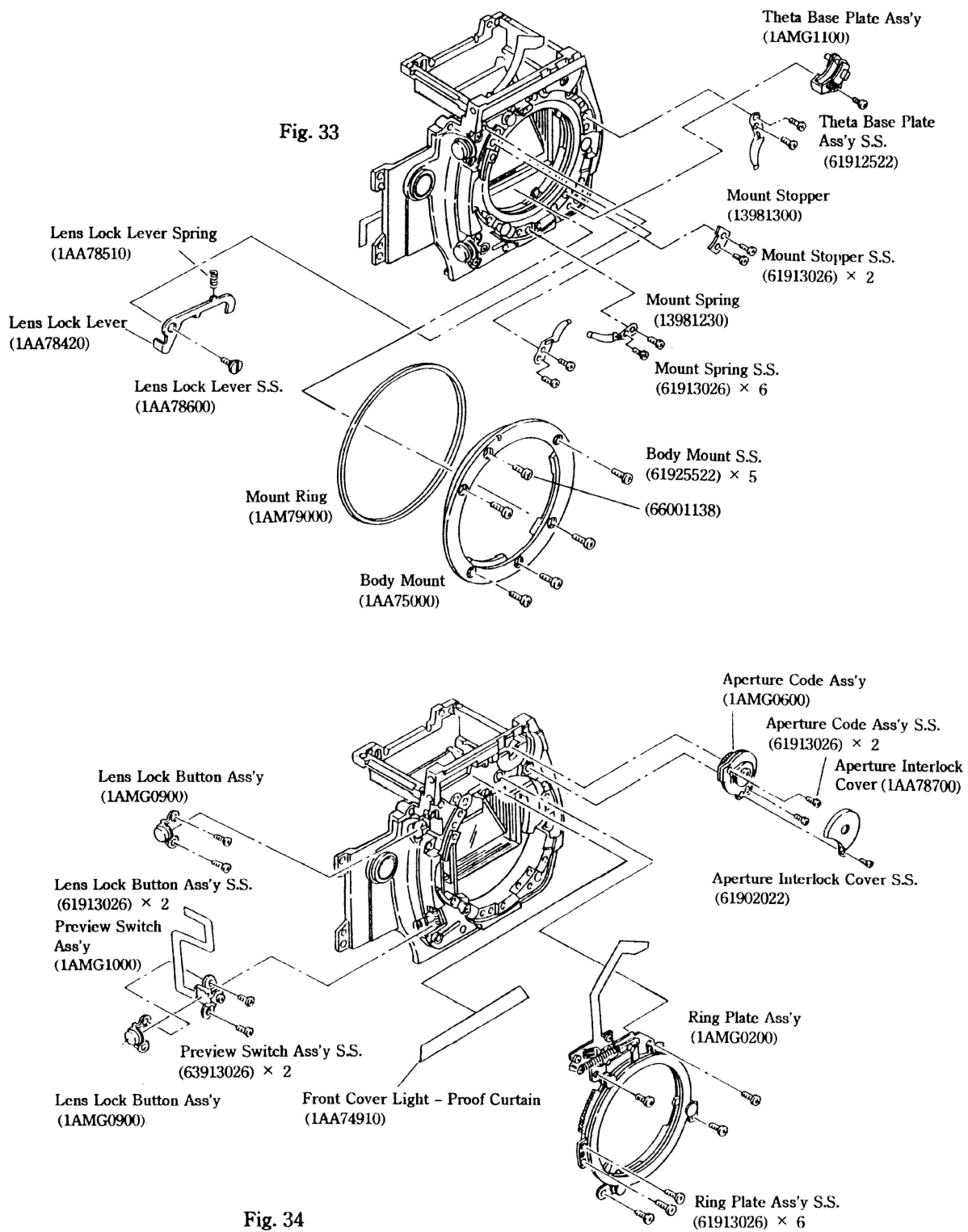
- 5) Remove the FC Base Plate Ass'y Setscrews (63912526)  $\times$  3 and take off the FC Base Plate Ass'y (1AMG2500) and FC Gear (1) Ass'y (1AMG2400).
- 6) Remove the Mirror Base Plate Ass'y Setscrews (63913026), (61812226)  $\times$  3 and take off the Mirror Base Plate Ass'y (1AMG1900).



(See Fig. 33 and 34)

- 7) Remove the Body Mount Setscrews (61925522)  $\times$  5, (66001138) and take off the Body Mount (1AA75000) and Mount Ring (1AM79000).
- 8) Remove the Theta Base Plate Ass'y Setscrews (61912522) and take off the Theta Base Plate Ass'y (1AMG1100).
- 9) Remove the Preview Switch Ass'y Setscrews (63913026)  $\times$  2 and take off the Preview Switch Ass'y (1AMG1000) and Lens Lock Button Ass'y (1AMG0900).
- 10) Remove the Mount Stopper Setscrews (61913026)  $\times$  2 and take off the Mount Stopper (13981300).
- 11) Remove the Mount Spring Setscrews (61913026)  $\times$  6 and take off the Mount Springs (13981230)  $\times$  3.
- 12) Remove the Front Cover Light - Proof Curtain (1AA74910).
- 13) Remove the Aperture Interlock Cover Setscrew (61902022) and take off the Aperture Interlock Cover (1AA78700).
- 14) Remove the Aperture Code Ass'y Setscrews (61913026)  $\times$  2 and take off the Aperture Code Ass'y (1AMG0600).
- 15) Remove the Lens Lock Lever Setscrew (1AA78600) and take off Lens Lock Lever Spring (1AA78510) and Lens Lock Lever (1AA78420).
- 16) Remove the Ring Plate Ass'y Setscrews (61913026)  $\times$  6 and take off the Ring Plate Ass'y (1AMG0200).

[Chart for Disassembly of Mirror Box Ass'y]



### [Installation Procedure for Parts of Mirror Box Ass'y]

- 1) Insert the (A) portion of the Open F - FPC through the (B) portion of the hole in the Mount Base and move the Aperture Interlock Ring of the Ring Plate Ass'y (1AMG0200) in the direction of the arrow (C) (in the direction of opening the aperture). In this state, install the Ring Plate Ass'y in the Mirror Box.
- 2) Tighten the Ring Plate Ass'y Setscrews (61913026)  $\times$  6.

Notes: a) Make certain that each ring of the Ring Plate Ass'y turns smoothly.

b) Take care not to flaw the (D) surface of the Mount Base.

c) Lock the Ring Plate Ass'y Setscrews (61913026)  $\times$  6 by applying the bond (Cemedine 551) to their heads.

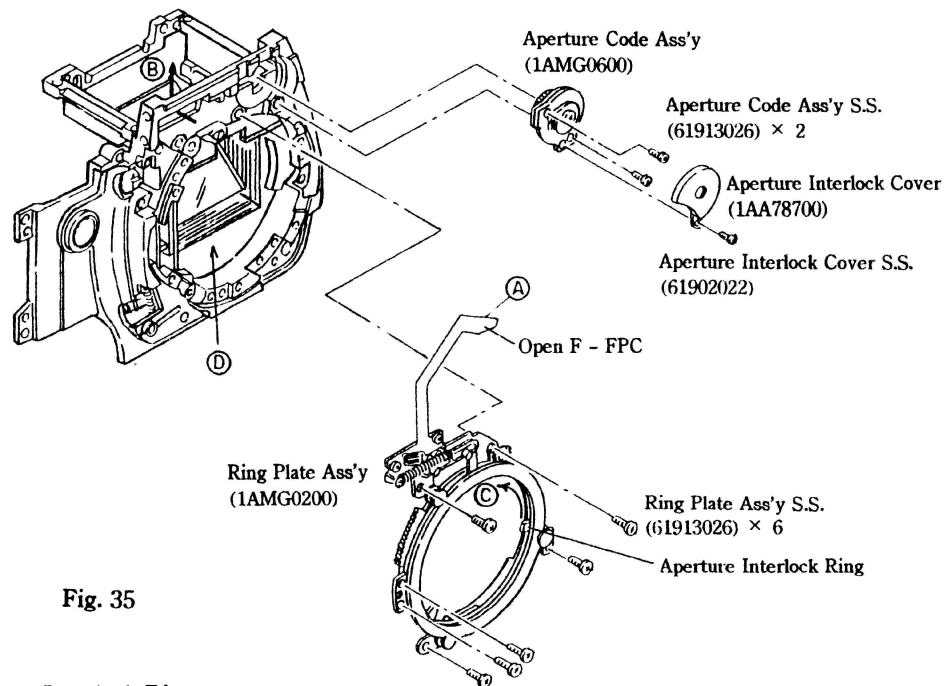


Fig. 35

- 3) Move the Aperture Interlock Ring in the direction of the arrow (C) and hold it there. (See Fig. 35)
- 4) Turn the hook point (F) (marked with a felt - tipped marker) of the spiral spring on the Aperture Interlock Gear (A) of the Aperture Code Ass'y (1AMG0600) by about 300 degrees in the direction of the arrow (E). With the hook point in this position, install the Aperture Code Ass'y in the Mirror Box and tighten the Aperture Code Ass'y Setscrews (61913026)  $\times$  2. (See Fig. 36)

(Back Side View of Aperture Code Ass'y)

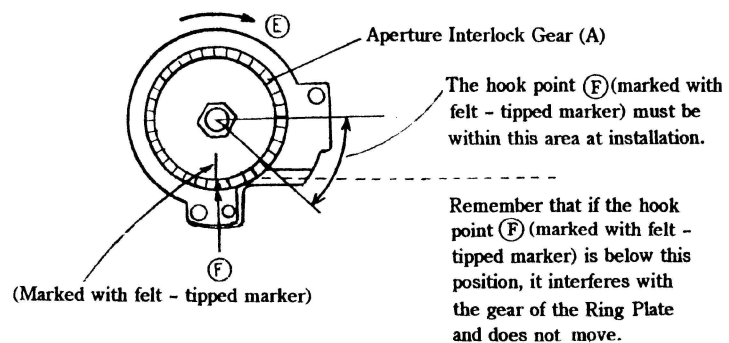


Fig. 36

- 5) Position the Aperture Interlock Base Contact of the Aperture Code Ass'y at the second piece of the Aperture Code pattern and tighten up the Aperture Interlock Base Assembly Setscrews (66001050). (See Fig. 37)
- 6) Install the Aperture Interlock Cover (1AA78700) and tighten the Aperture Interlock Cover Setscrews (61902022).

(Surface View of Aperture Code Ass'y)

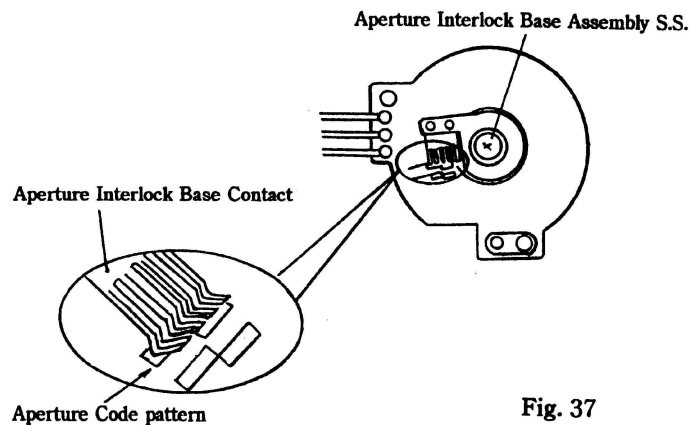


Fig. 37

(See Figs. 33 and 34)

- 7) Install the Lens Lock Lever (1AA78420) by tightening the Lens Lock Lever Setscrew (1AA78600) and install the Lens Lock Lever Spring (1AA78510).

**Note:** Apply Loctite to about 1.5 threads of the Lens Lock Lever Setscrew. Take care that the Loctite does not come out of the screw hole. Apply a proper amount of Loctite.

- 8) Install the Lens Lock Button Ass'y (1AMG0900) and tighten the Lens Lock Button Ass'y Setscrews (63913026)  $\times$  2.

Press the Lens Lock Button and make certain that the Lens Lock Lever moves properly.

- 9) Install the Lens lock Button Ass'y (1AMG0900) and Preview Switch Ass'y (1AMG1000) and tighten the Preview Switch Ass'y Setscrews (63913026)  $\times$  2.

**Note:** Take care not to deform the Preview Switch when installing the Preview Switch Ass'y.

- 10) Install the Theta Base Plate Ass'y (1AMG1100) and tighten the Theta Base Plate Ass'y Setscrews (61912522). Pass the lead wires (Blue and Orange) of the Theta Base Plate Ass'y through the hole in the Mount Base. (See Fig. 20)

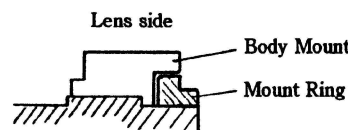
- 11) Install the Mount Spring (13981230)  $\times$  3 and tighten the Mount Spring Setscrews (61913026)  $\times$  6.

- 12) Install the Mount Stopper (13981300) and tighten the Mount Stopper Setscrews (61913026)  $\times$  2.

- 13) Put the Mount Ring (1AM79000) on the Body Mount (1AA75000) and install them on the Mount Base. Then tighten the Body Mount Setscrews (66001138), (61925522)  $\times$  5.

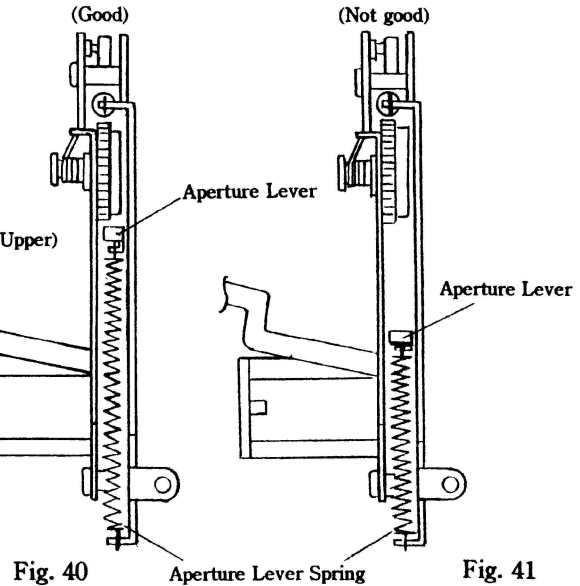
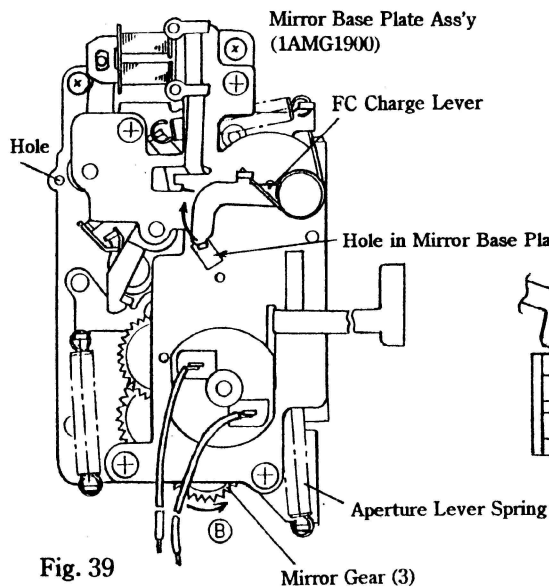
**Note:** In installing the Mount Ring, orient it as shown in Fig. 38.

Fig. 38



(Sectional View of Body Mount/Mount Ring)

- 14) Turn the Mirror Gear (3) of the Mirror Base Plate Ass'y (1AMG1900) in the direction of the arrow ③ until the Aperture Lever comes to the up position. At this point, the Aperture Lever Spring must be in the expanded position. (See Fig. 40)
- 15) Install the Mirror Base Plate Ass'y in the Mirror Box while inserting the pin of the Mirror Frame Ass'y in the hole in the Mirror Base Plate Ass'y. And tighten the Mirror Base Plate Ass'y Setscrews (61812226) × 3, (63913026).

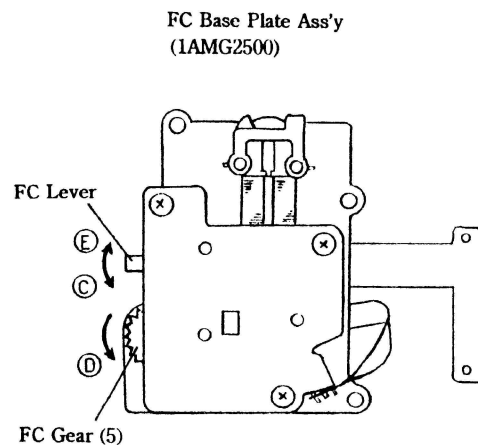


(Side View of Mirror Base Plate Ass'y)

- 16) Install the FC Gear (1) Ass'y (1AMG2400) and engage it with the gear of the Aperture Ring.
- 17) Lock the FC Slit Plate by the following procedure and then install the FC Base Plate Ass'y (1AMG2500) in the Mirror Box.

(See Fig. 42)

- ① Move the FC Lever of the FC Base Plate Ass'y in the direction of the arrow ③.
- ② Turn the FC Gear (5) in the direction of the arrow ④ (about one revolution). Then separate the FC Gear (5) and make certain that the FC Gear (5) turns smoothly.
- ③ From the stop position of the FC Gear (5), turn it by about 360 degrees in the direction of the arrow ④. With the FC Gear (5) in this state, move the FC Lever in the direction of the arrow ⑤ to lock the FC Slit Plate. At this point, make certain that the spring is hooked to the FC Gear (5).



- 18) Make certain that the Aperture Ring has been turned in the direction of the arrow ① (see Fig. 32). Then insert the pin of the FC Base Plate Ass'y in the hole in the FC Gear (1) Ass'y and install them in the Mirror Box. Tighten the FC Base Plate Ass'y Setscrews (63912526) × 3.

### [Assembly Procedure for Mirror Base Plate Ass'y]

- 1) Set the S. Hold Lever Spring (1AM73800) and FC Charge Lever Spring (1AM74800) on the Mirror Base Plate (Upper).

**Note:** Take care not to deform the S. Hold Lever Spring or FC Charge Lever Spring.

- 2) Install the Mirror Motor Ass'y (1AMG2300) and tighten the Mirror Motor Ass'y Setscrews (61812026)  $\times 2$ .  
Lock the Mirror Motor Ass'y Setscrews by applying the bond (Cemedine 551) to their heads.
- 3) Install the Magnet (1AD87400) and tighten the Magnet Setscrews (61903526)  $\times 2$ .  
In doing so, make sure that the pin of the S. MG Lever is positioned at the center of the hole in the Armature.  
Lock the Magnet Setscrews by applying the bond (Cemedine 551) to their heads.
- 4) Pass the (A) portion of the Mirror FPC (1AM51900) through the slit in the Mirror Base Plate (Upper).  
Fit the hole (B) in the Mirror FPC on the dowel of the Mirror Base Plate (Upper). And tighten the Mirror FPC Setscrew (61911826) so that the Mirror FPC does not float.
- 5) Pass the (C) portion of the Mirror FPC through the slot in the Mirror Base Plate (Upper) and bend the Mirror FPC.
- 6) Bend the (A) portion of the Mirror FPC as shown in Fig. 43 and solder it to the terminals of the Magnet.

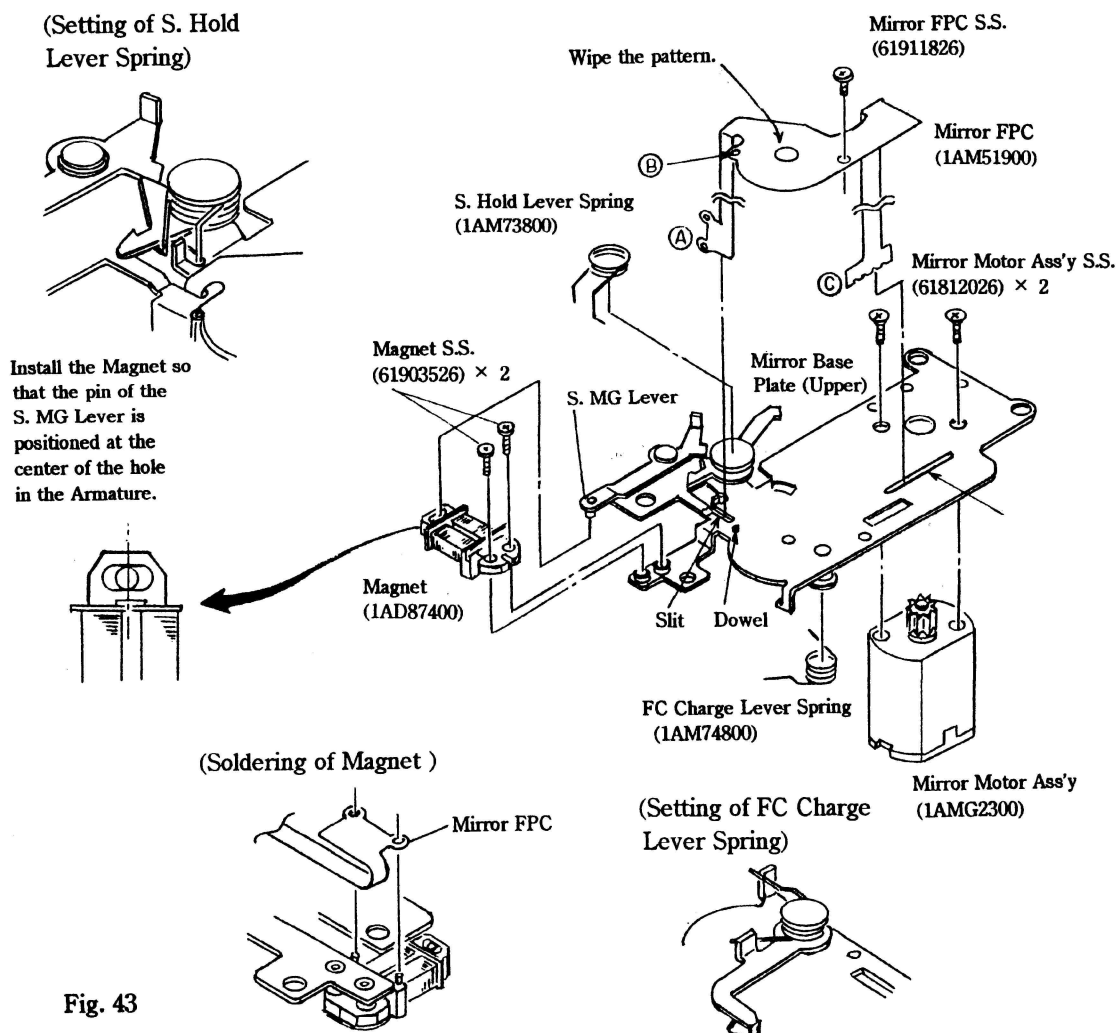


Fig. 43

7) Set the S. MG Lever Spring (1AM74200) on the Mirror Base Plate (Lower).

**Note:** Take care not to deform the S. MG Lever Spring.

8) Install the Mirror Cam (2) Ass'y (1AMG2100).

**Notes:** a) Take care not to deform the contact of the Mirror Cam (2) Ass'y.

b) Take care that the roller of the Mirror Up Lever does not come inside the cam of the Mirror Cam (2) Ass'y.

9) Install the Mirror Cam (1) (1AM71600) so that the hole in the Mirror Cam (1) is positioned at the hole in the Mirror Cam (2) Ass'y.

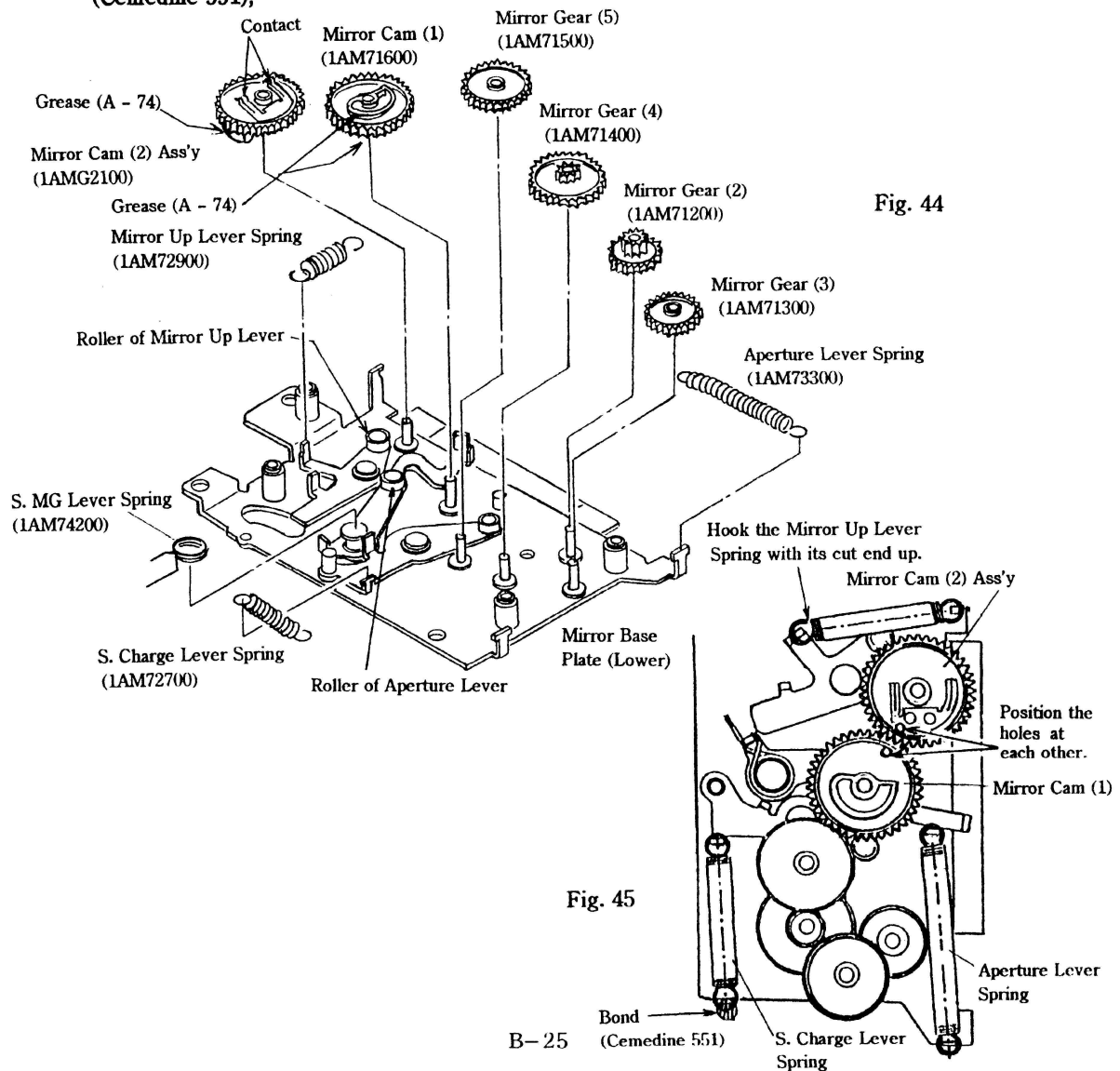
**Note:** Take care that the roller of the Aperture Lever or S. Charge Lever does not come inside the cam of the Mirror Cam (1).

10) Install the Mirror Gear (2) (1AM71200), Mirror Gear (4) (1AM71400), Mirror Gear (3) (1AM71300) and Mirror Gear (5) (1AM71500) in the named order.

11) Set the S. Charge Lever Spring (1AM72700), Mirror Up Spring (1AM72900) and Aperture Lever Spring (1AM73300) in the named order.

**Notes:** a) Hook the Mirror Up Lever Spring to the Mirror Up Lever so that the cut end of the Mirror Up Lever Spring is positioned up.

b) Lock the hook of the S. Charge Lever Spring to the Mirror Base Plate with the bond (Cemedine 551),



- 12) Wipe the contact pattern on the Mirror FPC with lens cleaning paper with ether alcohol. (See Fig. 43)
- 13) Make certain that the contacts of the Mirror Cam (2) Ass'y are free from fatigue or deformation.
- 14) Make certain that the hole in the Mirror Cam (2) Ass'y is positioned at the hole in the Mirror Cam (1). (See Fig. 45)
- 15) Install the Mirror Base Plate (Upper) on the Mirror Base Plate (Lower) with care taken that the end of the FC Charge Lever does not come inside the cam of the Mirror Cam (1). In doing so, the S. MG Lever Spring must be positioned outside the S. MG Lever.
- 16) Make certain that all the four posts of the Mirror Base Plate (Lower) are inserted in the holes in the Mirror Base Plate (Upper), and then tighten the Mirror Base Plate (Upper) Setscrews (63913026)  $\times$  4.
- 17) Move the Armature against the magnetic force by pushing the S. MG Lever and make certain that the S. MG Lever returns to the original position by the attraction force of the Magnet.
- 18) Operate the S. Hold Lever and make certain that the S. Hold Lever returns to the original position fully by the force of the Spring.

(Greasing Points)

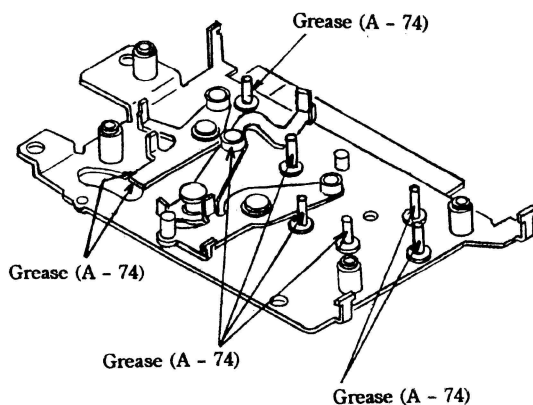


Fig. 47  
Mirror Base Plate (Lower)

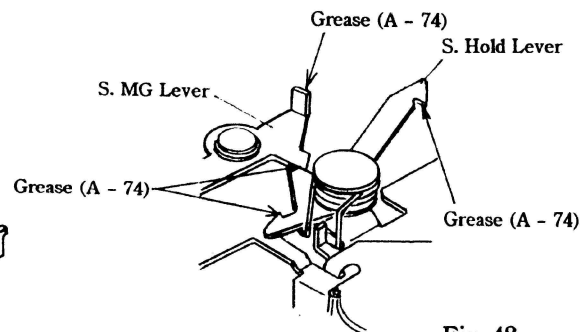
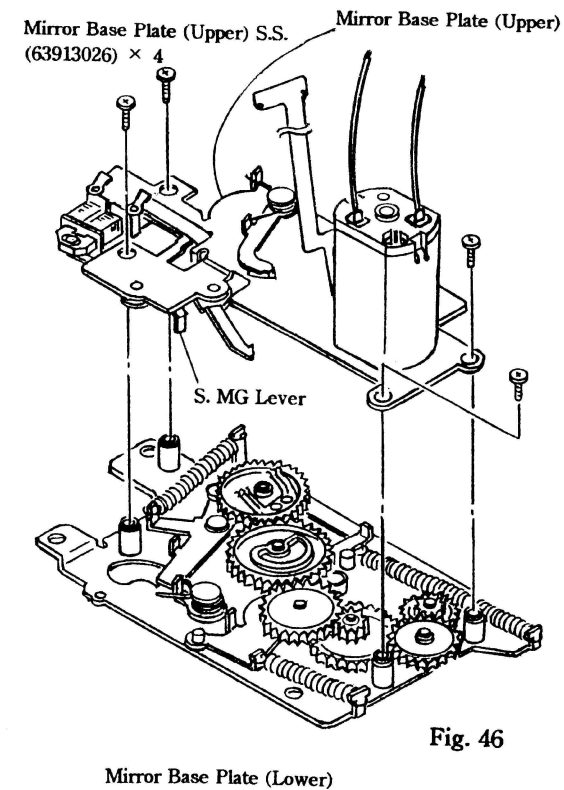


Fig. 48

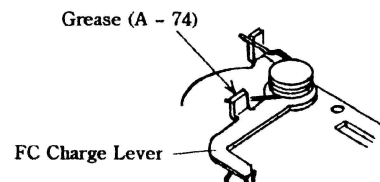


Fig. 49



## B - 9 - 2. Disassembly of Penta Prism Ass'y

**Note:** Shielder (black) has been applied to the gap between the Penta Prism and the Penta Prism Holder to prevent dust from entering the Viewfinder. Therefore, remove the shielder before removing the Penta Prism.

- 1) Push the end of the FS Lock Spring (L) and remove the Focusing Screen.
- 2) Take out the FS Hinge Shaft (1AM83000) and remove the FS Holder Ass'y (1AMF0200).

- 3) Peel off the Penta Prism Dust - Proof Moquette (1AH85000).
- 4) Pick off the Shielder applied around the Penta Prism, using tweezers or the like.
- 5) Peel off the Penta Cover (17484210).

**Note:** The Penta Cover is fixed to the Penta Prism Retaining Spring with double - stick tape.

- 6) Remove the Penta Prism Retaining Spring Setscrews (61913026)  $\times$  2 and take off the Penta Prism Retaining Spring (1AM82110).
- 7) Remove the Penta Prism Cover (1AH84800), Penta Prism (1AM84100) and Viewfinder Frame (B) (1AM82510).
- 8) Remove the Finder Indicator Prism (1AM82310).

**Note:** The Finder Indicator Prism is fixed to the Penta Prism Holder with the bond (Cemedine 551).

- 9) Remove the Penta Prism Spacer (1AM82000), Condenser Lens (1AH84600) and Viewfinder Frame (A) (1AH84400).

## [Checks after Assembly of Penta Prism]

- a) After the assembly of the Penta Prism, make certain that there is no dust in the Viewfinder.
- b) After the assembly of the Penta Prism, apply the shielder to the gap between the Penta Prism and the Penta Prism Holder.

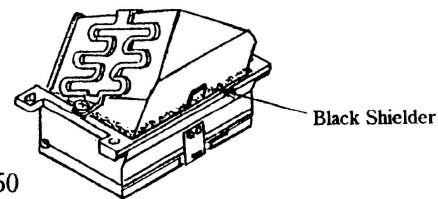


Fig. 50

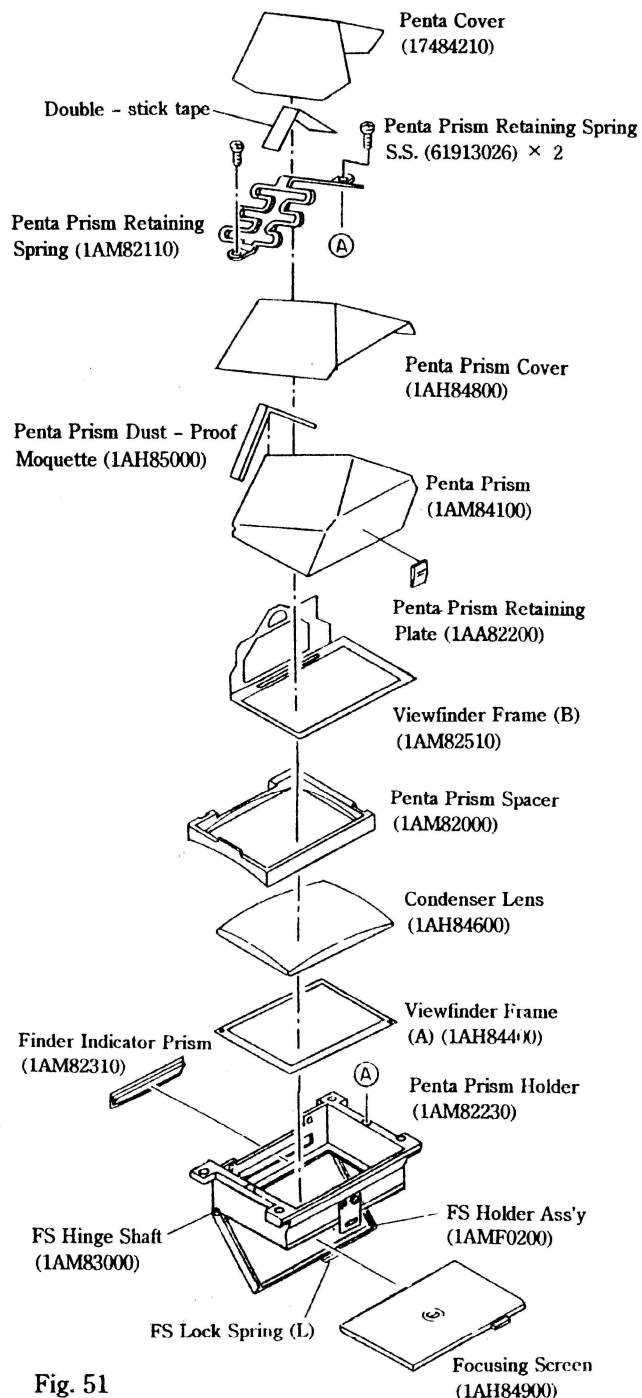


Fig. 51

## B - 9 - 3. Disassembly of Winding Unit Ass'y

Notes: a) During repair, take care not to bend or deform the Rewind Switch (1AA57400).  
 b) Once the Winding Unit Ass'y is disassembled, make the adjustment of perforation position. (See page C-3)  
 c) Remove the Sprocket Gear Holder (1AM35120) and mark the Sprocket Gear and the Frame Limiting Gear with a felt - tipped marker before moving the Sprocket Gear. In doing so, the Frame Limiting Gear must be engaged with the Frame Limiting Lever and must not move. In installing the Sprocket Gear, engage the marked teeth, and you do not have to make the adjustment of perforation position. However, check the perforation position for properness. (See page C-4)

- 1) Remove the Sprocket Gear Holder Setscrews (61901826)  $\times$  2 and take off the Sprocket Gear Holder (1AM35120) and Sprocket Gear (17437010) (or Sprocket Gear (A) (17436910) used by selection).

- 2) Remove the FW Lower Base Plate Setscrews (66001068)  $\times$  3 and take off the FW Upper Base Plate.

- 3) Disassemble the Winding Unit Ass'y as shown in Fig. 53.

Note: The Frame Limiting Gear Ass'y (1AMB2000) is attached to The FW Lower Base Plate with the Frame Tape (1AM34300).

Fig. 52

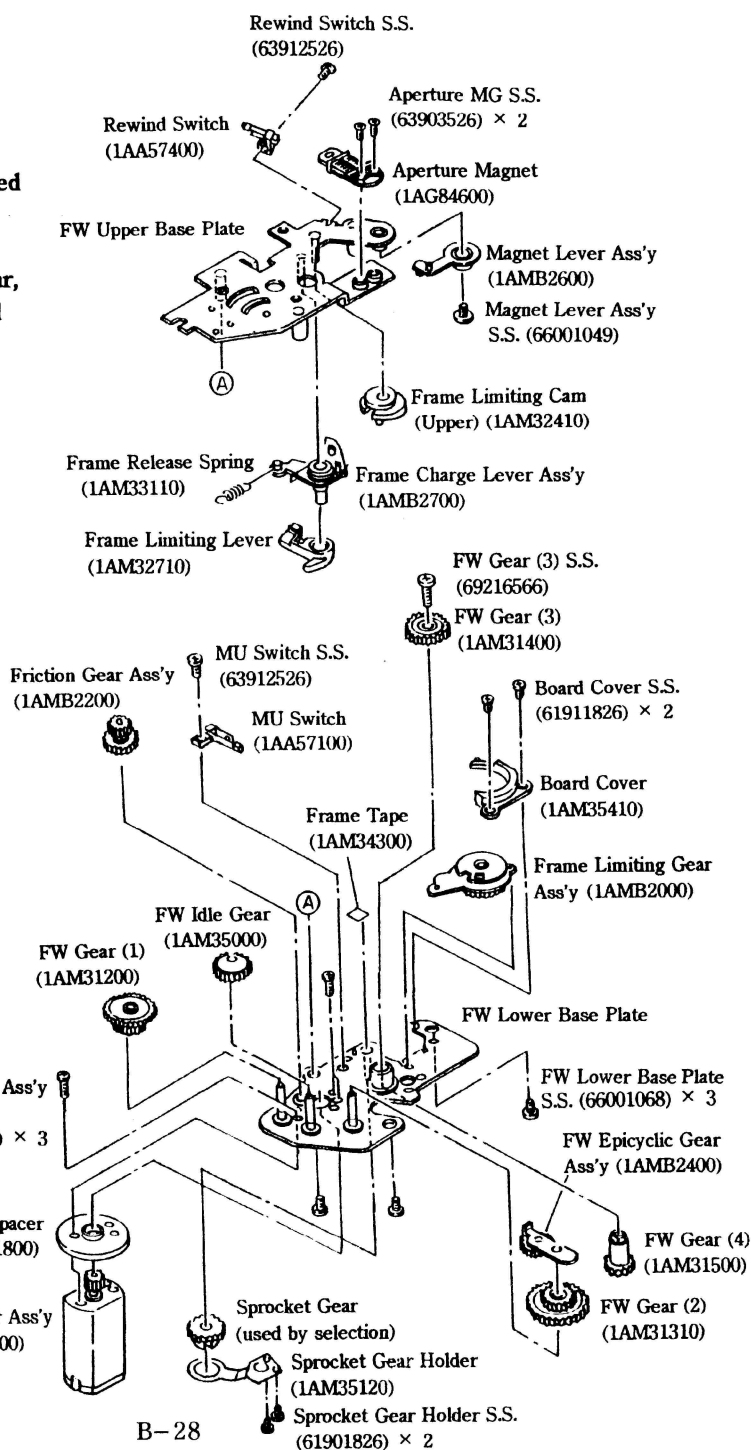
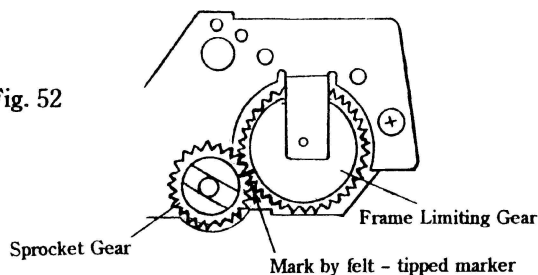


Fig. 53

B-28

## [Assembly Procedure for Winding Unit]

1) As shown in Fig. 53, install the parts on the FW Upper Base Plate.

### Notes:

- The spring of the Frame Charge Lever Ass'y (1AMB2700) must be in contact with the pin of the Magnet Lever Ass'y (1AMB2600).
- Engage the end of the Frame Limiting Lever (1AM32710) with the groove of the Frame Limiting Cam (Upper) (1AM32410).
- Catch the Frame Release Spring (1AM33100) in the groove. And lock the Spring with the bond (Cemedine 551).
- When installing a new Aperture Magnet (1AG84600), cut off the two upper terminals of the Aperture Magnet at their root beforehand.

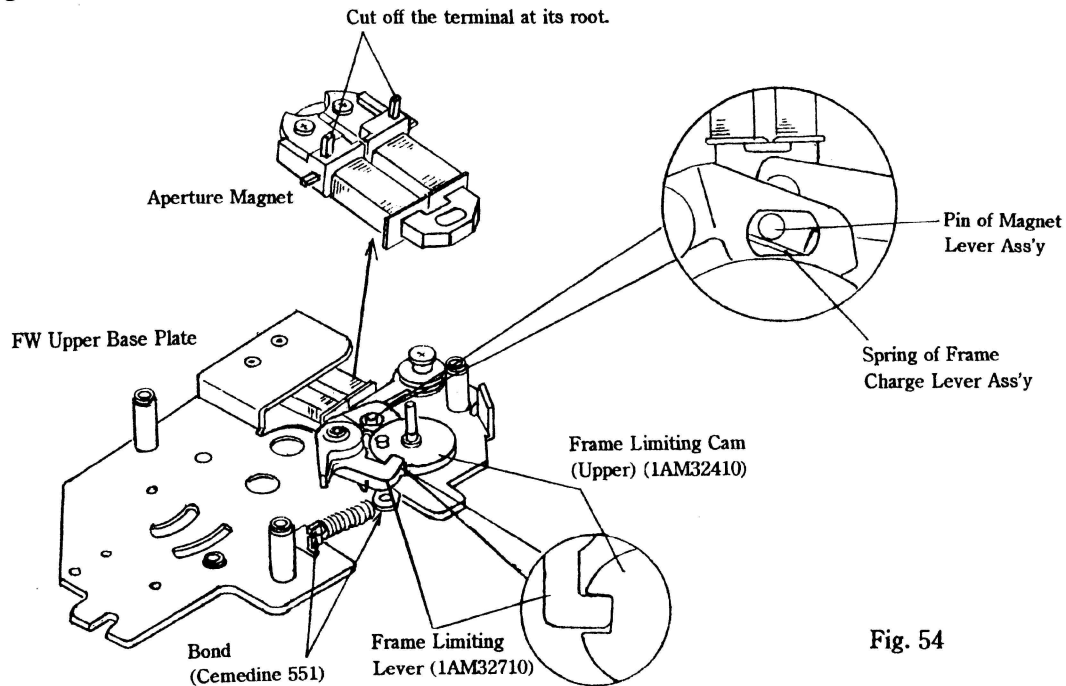


Fig. 54

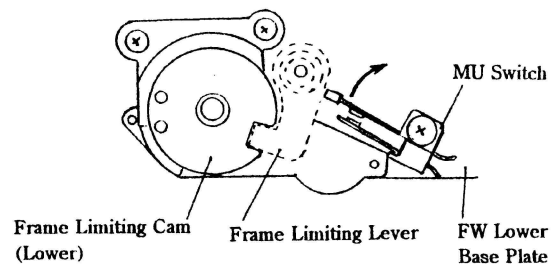
2) As shown in Fig. 53, install the parts on the FW Base Plate.

**Note:** Push the MU Switch (1AA57100) in the direction of the arrow shown in Fig. 55 and tighten the MU Switch Setscrew (63912526).

3) Install the FW Upper Base Plate on the FW Lower Base Plate. In doing so, engage the groove of the Frame Limiting Cam (Lower) with the end of the Frame Limiting Lever.

4) Tighten the FW Lower Base Plate Setscrews (66001068) × 3.

Fig. 55



- 5) Install the Sprocket Gear (Sprocket Gear (A) (17436910) or Sprocket Gear (17437010) selected for use) and align the mark by felt - tipped marker on the Sprocket Gear with that on the Frame Limiting Gear.
- 6) Install the Sprocket Gear Holder (1AM35100) and tighten the Sprocket Gear Holder Setscrews (61901826)  $\times$  2.

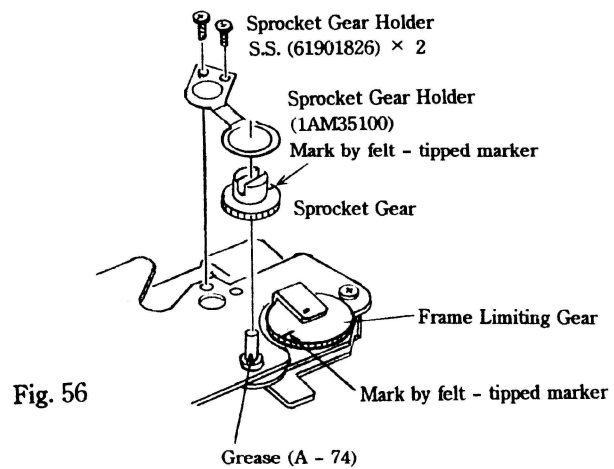


Fig. 56

- 7) Loosen the Aperture Magnet Setscrews (63903526)  $\times$  2. Tighten the Aperture Magnet Setscrews while positioning of the Magnet Lever Ass'y center of the Armature. Lock the Aperture Magnet Setscrews by applying the bond (Cemedine 551) to their heads.

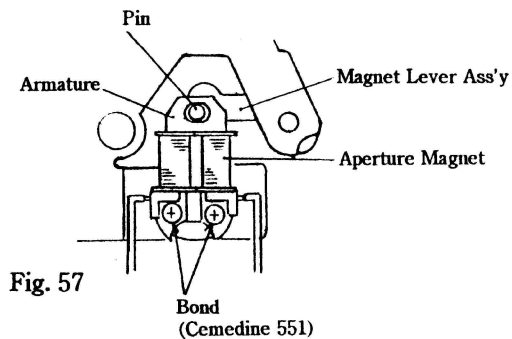


Fig. 57

(Greasing Points)

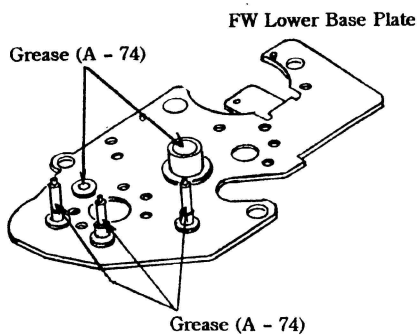


Fig. 58

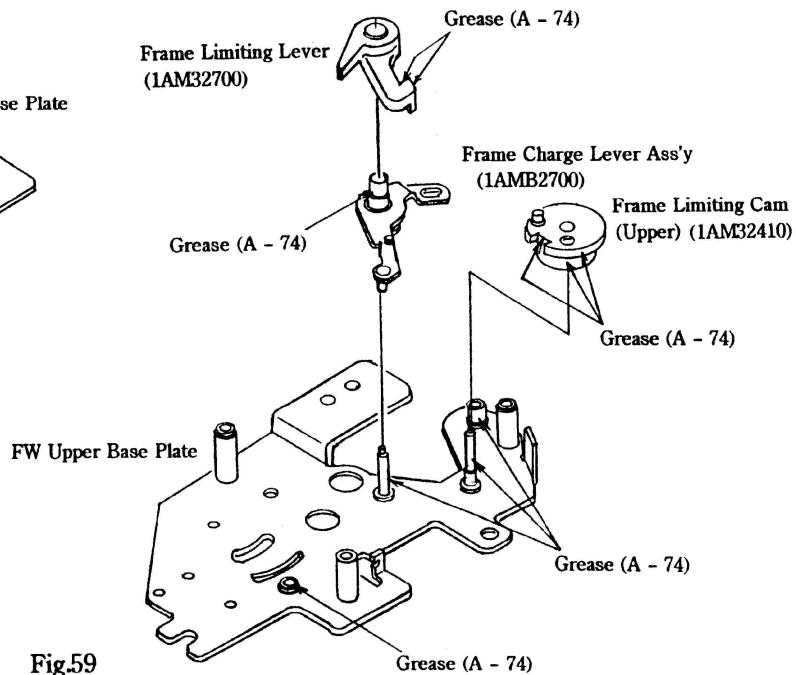


Fig. 59

#### B - 9 - 4. Disassembly of Rewind Base Plate (Upper) Ass'y

- 1) Remove the RW Upper Base Plate Ass'y Setscrews (66001068)  $\times$  3 and take off the RW Upper Base Plate Ass'y (1AMB09000).
- 2) Disassemble the Ass'y as shown in Fig. 60.

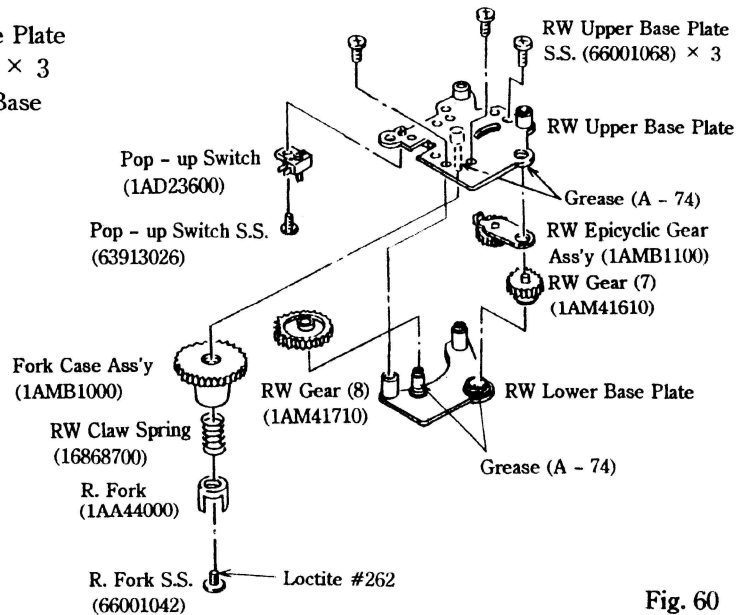


Fig. 60

#### B - 9 - 5. Disassembly of Rewind Base Plate (Lower)

- 1) Remove the RW Gear Box Plate Setscrews (69113576)  $\times$  3 and take off the RW Gear Box Plate.
- 2) Disassemble the Ass'y as shown in Fig. 61.

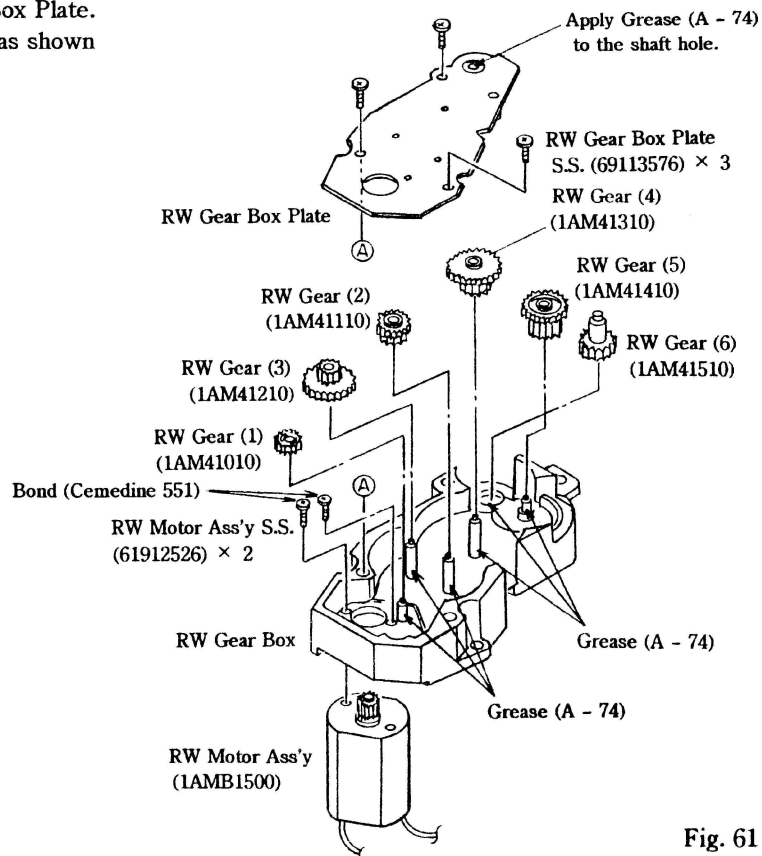


Fig. 61

## B - 10. DISASSEMBLY OF BACK COVER ASS'Y

### B - 10 - 1. Disassembly of Back Cover Ass'y

1) Disassemble the Back Cover Ass'y as shown below.

#### Notes:

- The Date Module is fixed to the DM Holder with a super glue.  
Once the Auto Date Module is removed, adjust the position of the Auto Date Module.
- The D. Battery Contact (-) (38415930) and the D. Battery Contact (+) (38415840) are fixed to the DM Holder with the bond (Cemedine 551).
- Once the Back Cover Rubber (S) (1AM15700) and the Back Cover Rubber (L) (1AM15610) are removed, the adhesive force of the double - stick tapes weakens. Therefore, replace the Back Cover Tape (S) (1AM15400), Back Cover Tape (L1) (1AM15210) and the Back Cover Tape (L2) (1AM15300) with new ones.

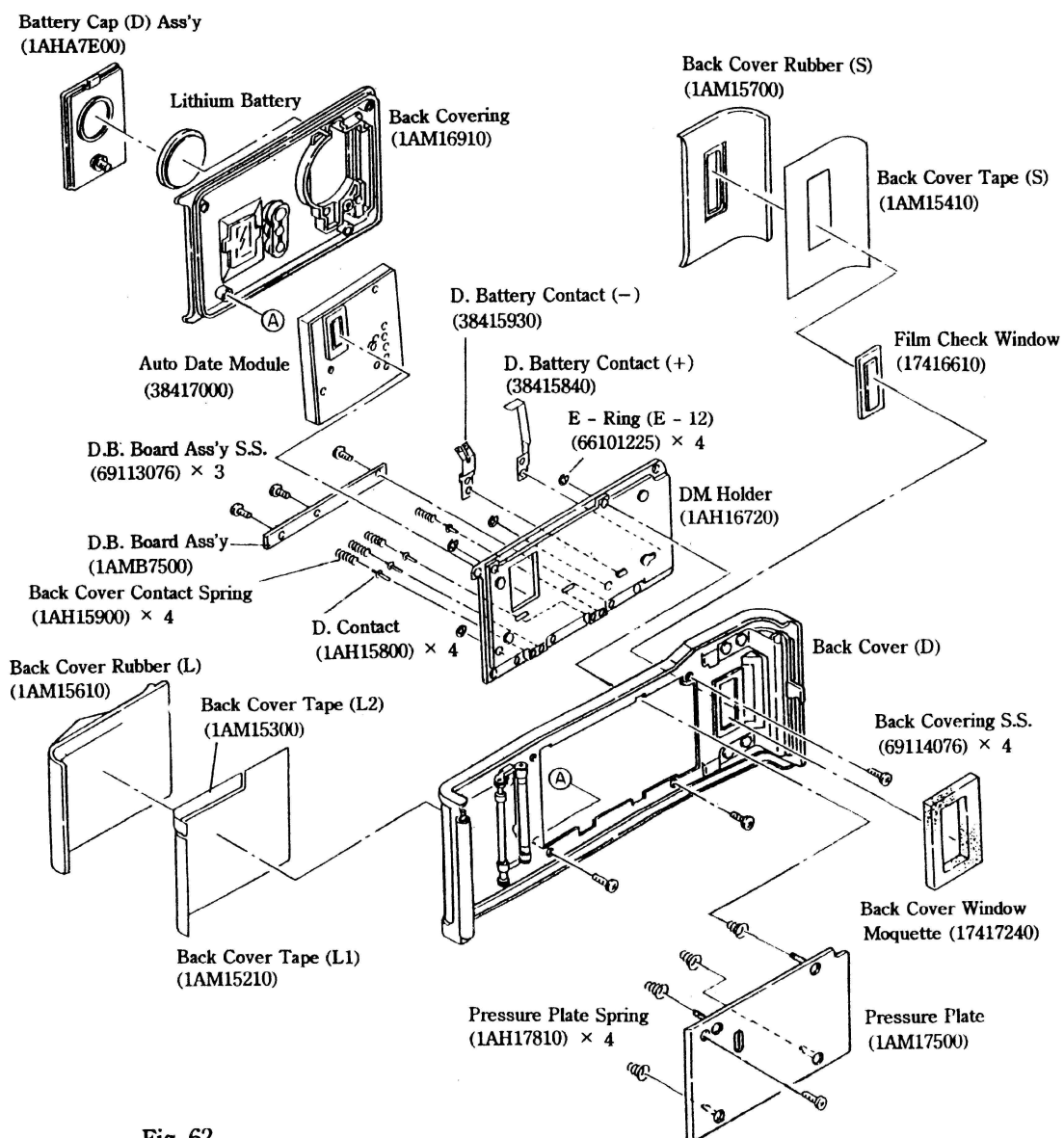
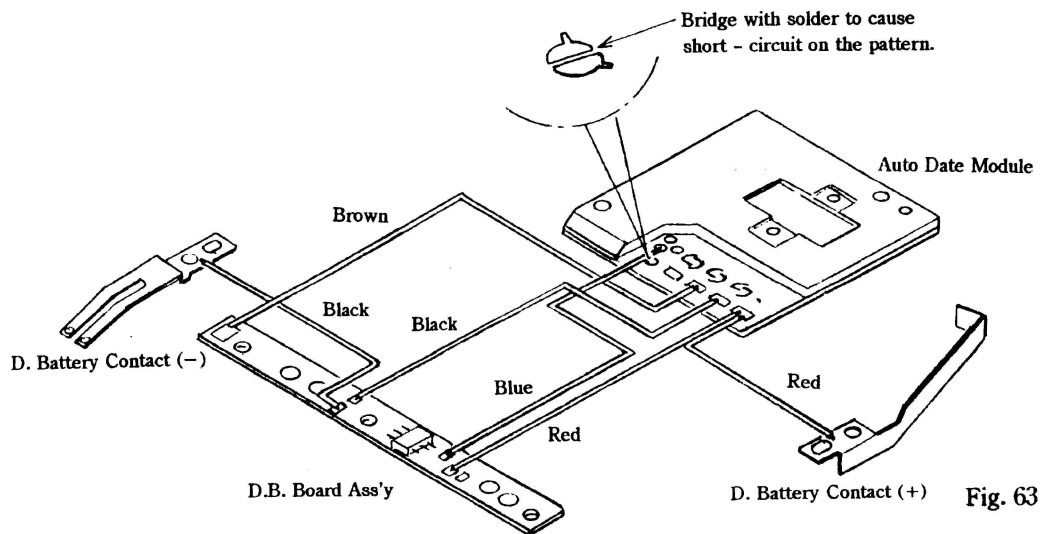


Fig. 62

### [Wiring of Date Module and D.B. Board]



### [Installation of Parts on Back Covering]

- 1) Install the Date Window (1AH19400), Mode Button (38515410) and Battery Cap Screw Socket (1AH16800) on the Back Covering (1AH16910).
- 2) Lock the Date Window, Mode Button and Battery Cap Screw Socket by applying the bond (Cemedine 551) to their whole peripheries.

**Note:** The Back Covering, Date Window and Mode Button, which are exterior parts, must be free from flaws, stains, spilling bond, etc.

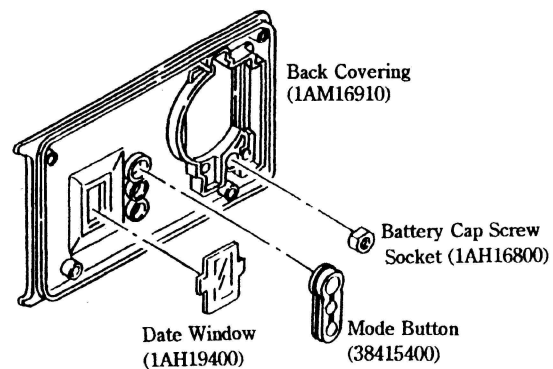


Fig. 64

## ■ PARTS MODIFICATION LIST

### [1] Modification of Main FPC Ass'y

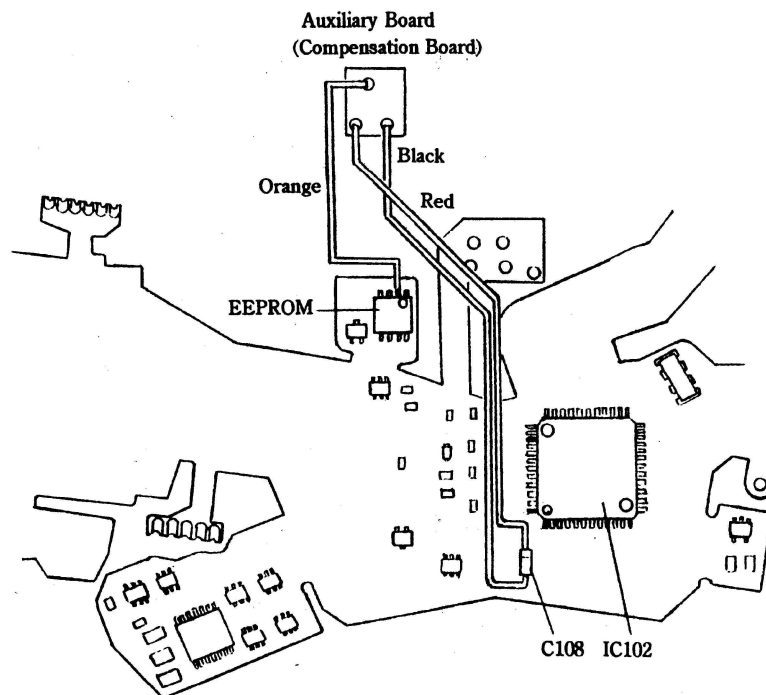
In this camera, the Main FPC Ass'y was modified in the course of production to improve the quality. The instructions given in this Repair Manual are generally intended for repair of the new type product. Perform the repair of the old type product as follows:

#### (Auxiliary Board)

At the early stage of production, some cameras were provided with an Auxiliary Board for the compensation of the EEPROM Power Circuit to improve the quality. The new type camera, whose Main FPC Ass'y has been improved, is not provided with the Auxiliary Board.

#### a) Lead wire connection diagram

\* The Auxiliary Board is fixed to the IC102 with double - stick tape.



#### b) Repair Information

No old type Main FPC Ass'y will be supplied.

Only the new type Main FPC Ass'y is available.

The old type Main FPC Ass'y and the new type Main FPC Ass'y are interchangeable with each other.

Therefore, install the new type Main FPC in the Body the same as the old type one. After the replacement of the Main FPC, make the adjustment of compensation values.